


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Aurora Federal 4-21D-7-20				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT BRENNAN BOTTOM				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME AURORA (DEEP)				
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8164				
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL BHilgers@billbarrettcorp.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU-75093			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Pelican Lake Farms, LLC						14. SURFACE OWNER PHONE (if box 12 = 'fee') 970-878-4331				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') PO Box 833, ,						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		267 FNL 223 FWL		NWNW	21	7.0 S	20.0 E	S		
Top of Uppermost Producing Zone		654 FNL 665 FWL		NWNW	21	7.0 S	20.0 E	S		
At Total Depth		660 FNL 660 FWL		NWNW	21	7.0 S	20.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 660			23. NUMBER OF ACRES IN DRILLING UNIT 40				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 769			26. PROPOSED DEPTH MD: 10480 TVD: 10409				
27. ELEVATION - GROUND LEVEL 4811			28. BOND NUMBER WYB000040			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-2336				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	26	16	0 - 80	65.0	Unknown	8.8	Unknown	0	0.0	0.0
Surf	12.25	9.625	0 - 2000	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown	280	3.16	11.0
							Halliburton Premium , Type Unknown	210	1.36	14.8
Prod	8.75	5.5	0 - 10480	17.0	P-110 LT&C	9.6	Unknown	830	2.31	11.0
							Unknown	1060	1.42	13.5
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Venessa Langmacher				TITLE Senior Permit Analyst			PHONE 303 312-8172			
SIGNATURE				DATE 05/03/2012			EMAIL vlangmacher@billbarrettcorp.com			
API NUMBER ASSIGNED 43047526330000				APPROVAL  Permit Manager						

BILL BARRETT CORPORATION

DRILLING PLAN

Aurora Federal 4-21D-7-20

NW NW, 267' FNL and 223' FWL, Section 21, T7S-R20E, SLB&M (surface hole)

NW NW, 660' FNL and 660' FWL, Section 21, T7S-R20E, SLB&M (bottom hole)

Uintah County, Utah

1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth - TVD</u>
Lower Green River*	6,144'	6,074'
Douglas Creek	6,299'	6,229'
Black Shale	7,034'	6,964'
Castle Peak	7,119'	7,049'
Wasatch*	7,979'	7,909'
TD	10,480'	10,409'

*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 334'

3. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 2,000'	No pressure control required
2,000' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

4. Casing Program

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	2,000'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

*The casing program is based on recent wells drilled by Axia in the immediate area.

9-5/8" casing may be preset with a spudder rig. If this occurs, the following equipment shall be in place and operational during air/gas drilling:

Bill Barrett Corporation
 Drilling Program
 Aurora Federal #4-21D-7-20
 Uintah County, Utah

- Properly lubricated and maintained rotating head
- Spark arresters on engines or water cooled exhaust
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run on blooie line unless otherwise approved
- Deduster equipment
- All cuttings and circulating medium shall be directed into a reserve or blooie pit
- Float valve above bit
- Automatic igniter or continuous pilot light on the blooie line
- Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the well bore
- Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits

5. **Cementing Program**

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 280 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft ³ /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft ³ /sx), calculated hole volume with 75% excess. TOC @ 1,500'
5 1/2" Production Casing	Lead: 830 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft ³ /sx). TOC @ 1,500' Tail: 1060 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft ³ /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 6,534'

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 2,000'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,000' – TD	8.6 – 9.6	42 – 52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. **Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

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Drilling Program
Aurora Federal #4-21D-7-20
Uintah County, Utah

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5196 psi* and maximum anticipated surface pressure equals approximately 2906 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

**Maximum surface pressure = A – (0.22 x TD)

9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
 - b) Inside BOP or stab-in valve (available on rig floor)
 - c) Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Green River located in Sec. 33, T8S-R20E.

11. Drilling Schedule

Location Construction:	July 2012
Spud:	July 2012
Duration:	15 days drilling time
	45 days completion time



Bill Barrett Corporation

AURORA CEMENT VOLUMES

Well Name: Aurora Federal 4-21D-7-20

Surface Hole Data:

Total Depth:	2,000'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

Calculated Data:

Lead Volume:	822.1	ft ³
Lead Fill:	1,500'	
Tail Volume:	274.0	ft ³
Tail Fill:	500'	

Cement Data:

Lead Yield:	3.16	ft ³ /sk
% Excess:	75%	
Top of Lead:	0'	

Calculated # of Sacks:

# SK's Lead:	280
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Tail Yield:	1.36	ft ³ /sk
% Excess:	75%	
Top of Tail:	1,500'	

# SK's Tail:	210
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Production Hole Data:

Total Depth:	10,480'
Top of Cement:	1,500'
Top of Tail:	6,534'
OD of Hole:	8.750"
OD of Casing:	5.500"

Calculated Data:

Lead Volume:	1907.3	ft ³
Lead Fill:	5,034'	
Tail Volume:	1495.2	ft ³
Tail Fill:	3,946'	

Cement Data:

Lead Yield:	2.31	ft ³ /sk
Tail Yield:	1.42	ft ³ /sk
% Excess:	50%	

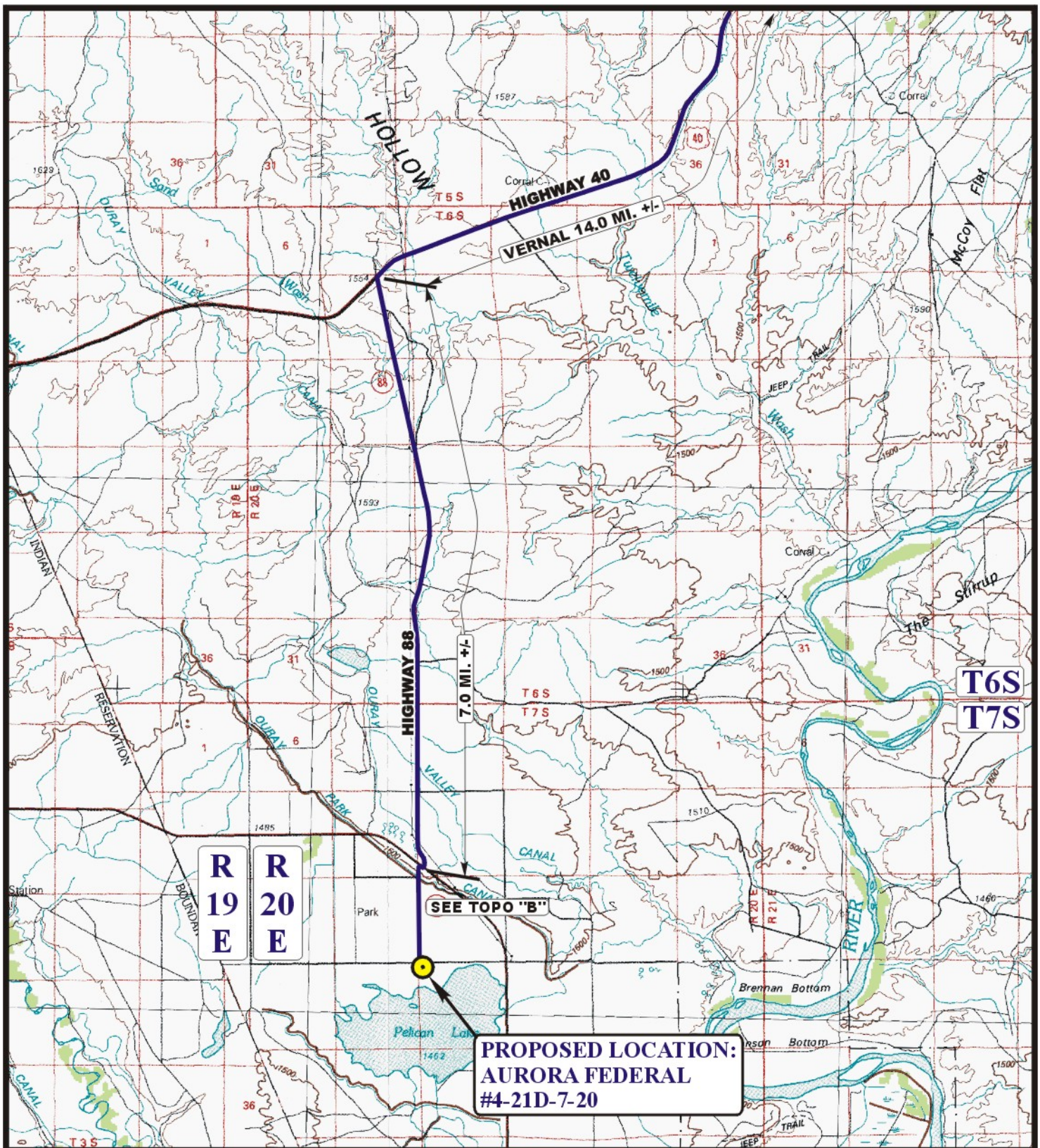
Calculated # of Sacks:

# SK's Lead:	830
# SK's Tail:	1060

Aurora Federal 4-21D-7-20 Proposed Cementing Program

<u>Job Recommendation</u>	<u>Surface Casing</u>		
Lead Cement - (1500' - 0')			
Halliburton Light Premium	Fluid Weight:	11.0	lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield:	3.16	ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid:	19.48	Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid:	0'	
2.0% Bentonite	Calculated Fill:	1,500'	
	Volume:	146.41	bbl
	Proposed Sacks:	280	sks
Tail Cement - (TD - 1500')			
Premium Cement	Fluid Weight:	14.8	lbm/gal
2.0% Calcium Chloride	Slurry Yield:	1.36	ft ³ /sk
	Total Mixing Fluid:	6.37	Gal/sk
	Top of Fluid:	1,500'	
	Calculated Fill:	500'	
	Volume:	48.80	bbl
	Proposed Sacks:	210	sks

<u>Job Recommendation</u>	<u>Production Casing</u>		
Lead Cement - (6534' - 1500')			
Tuned Light™ System	Fluid Weight:	11.0	lbm/gal
	Slurry Yield:	2.31	ft³/sk
	Total Mixing Fluid:	10.65	Gal/sk
	Top of Fluid:	1,500'	
	Calculated Fill:	5,034'	
	Volume:	339.68	bbl
	Proposed Sacks:	830	sks
Tail Cement - (10480' - 6534')			
Econocem™ System	Fluid Weight:	13.5	lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield:	1.42	ft³/sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid:	6.61	Gal/sk
	Top of Fluid:	6,534'	
	Calculated Fill:	3,946'	
	Volume:	266.29	bbl
	Proposed Sacks:	1060	sks



LEGEND:

 PROPOSED LOCATION

BILL BARRETT CORPORATION

AURORA FEDERAL #4-21D-7-20
SECTION 21, T7S, R20E, S.L.B.&M.
267' FNL 223' FWL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

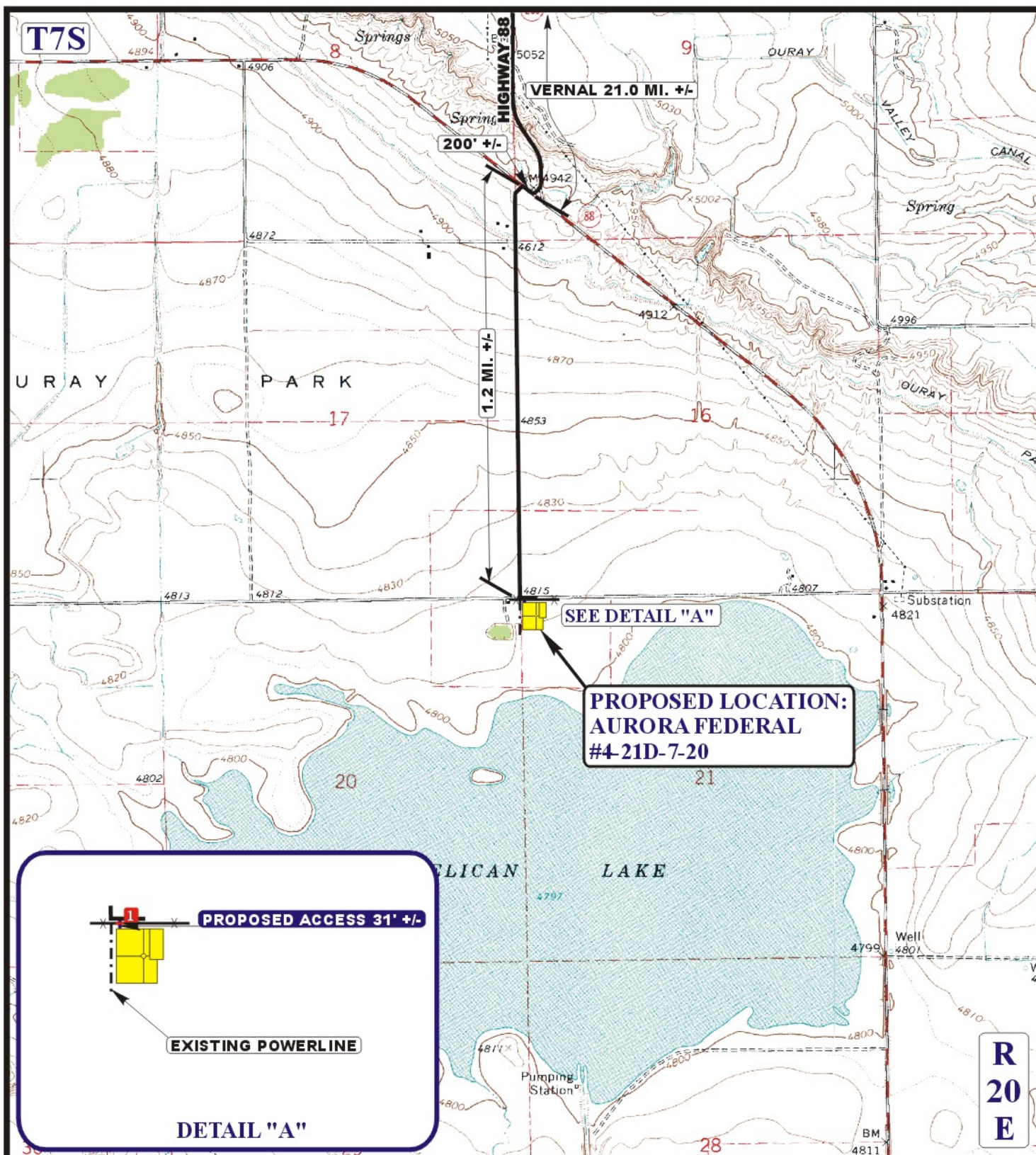


TOPOGRAPHIC
MAP

11 02 10
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.J. REV: 07-26-11 Z.L.





LEGEND:

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD
- * * * * * EXISTING FENCE
- I INSTALL CATTLE GUARD



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
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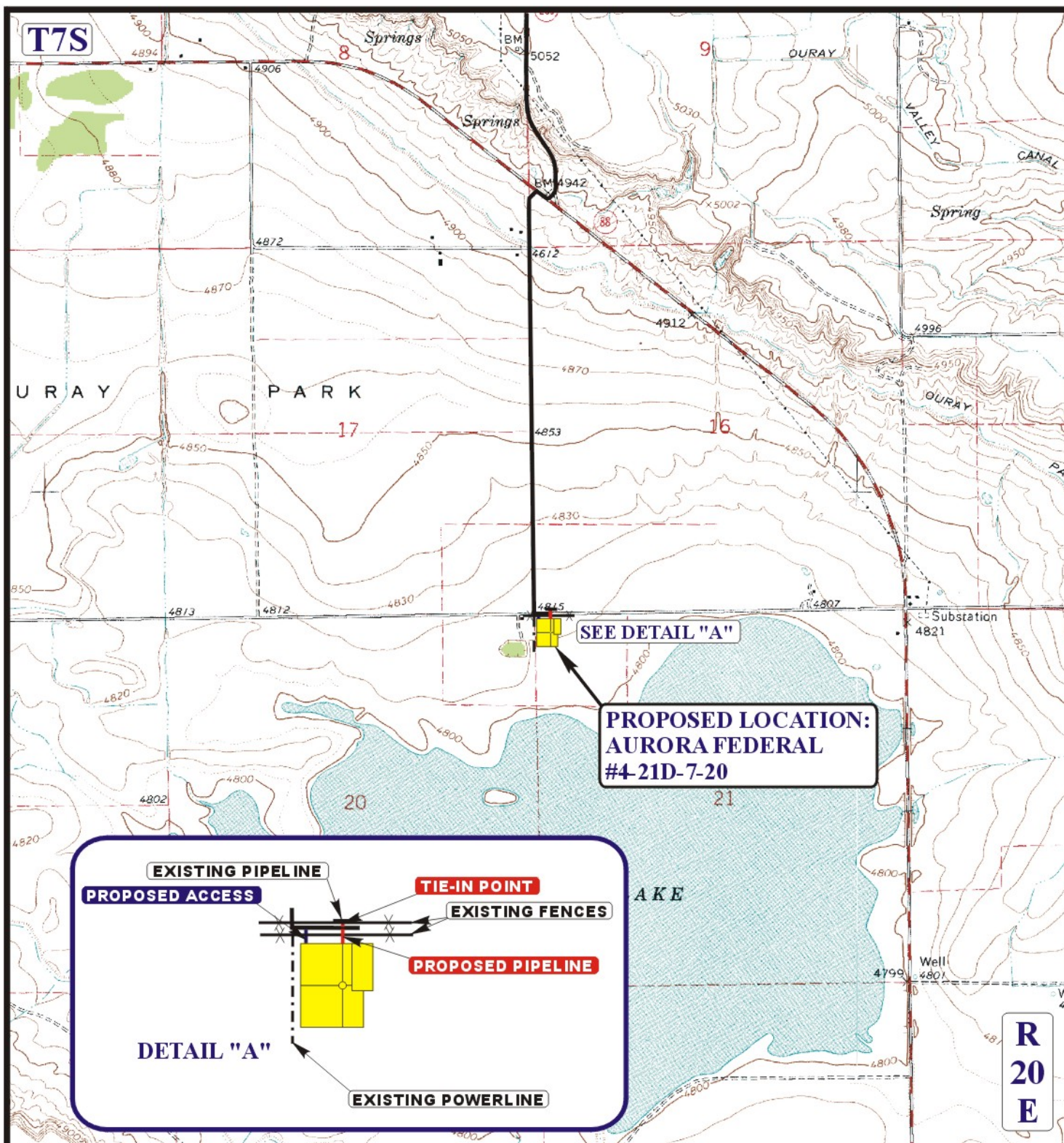
AURORA FEDERAL #4 21D-7-20
SECTION 21, T7S, R20E, S.L.B.&M.
267' FNL 223' FWL

TOPOGRAPHIC
MAP

11 02 10
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.J. REV: 07-26-11 Z.L.

B
TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 110' +/-

LEGEND:

	PROPOSED ACCESS ROAD
	EXISTING PIPELINE
	PROPOSED PIPELINE
	EXISTING POWER LINE
	EXISTING FENCE



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AURORA FEDERAL #4 21D-7-20
SECTION 21, T7S, R20E, S.L.B.&M.
267' FNL 223' FWL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

11 30 11
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: B.D.H. REVISED: 00-00-00





Bill Barrett Corporation

SITE DETAILS: Aurora Federal 4-21D-7-20
East Bluebell

 Site Latitude: 40° 12' 10.130 N
 Site Longitude: 109° 40' 56.960 W
COMPANY DETAILS: BILL BARRETT CORP
 Calculation Method: Minimum Curvature
 Error System: ISCWSA
 Scan Method: Closest Approach 3D
 Error Surface: Elliptical Conic
 Warning Method: Error Ratio

 Positional Uncertainty: 0.0
 Convergence: 1.20
 Local North: True
WELL DETAILS: Aurora Federal 4-21D-7-20

Ground Level: 4811.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	-42242.71	2507728.29	40° 12' 10.130 N	109° 40' 56.960 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
4-21D-7-20 TGR3	6074.0	-387.7	442.3 40° 12' 6.300 N	109° 40' 51.262 W	Rectangle (Sides: L200.0 W200.0)	
4-21D-7-20 PBHL	10409.0	-387.7	442.3 40° 12' 6.300 N	109° 40' 51.262 W	Rectangle (Sides: L200.0 W200.0)	

SECTION DETAILS

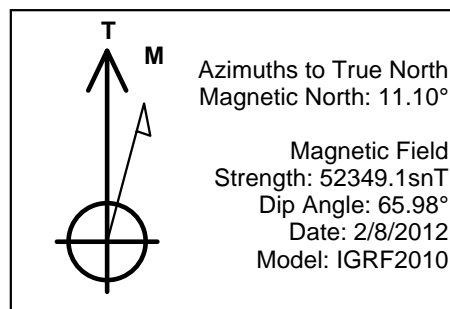
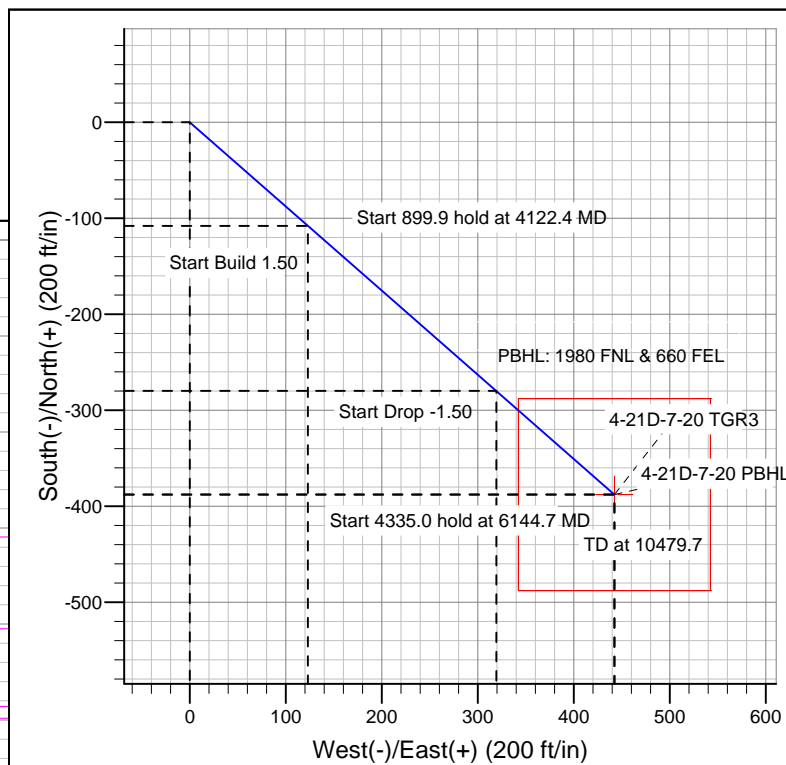
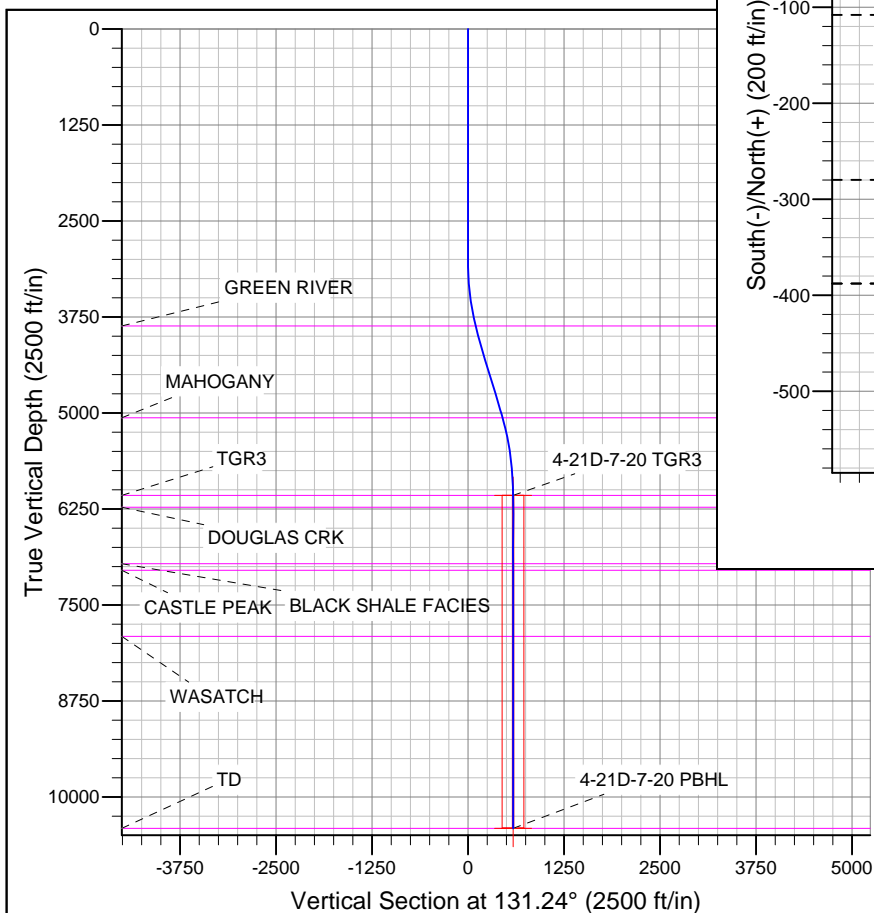
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	4122.4	16.84	131.24	4106.3	-107.9	123.1	1.50	131.24	163.7	
4	5022.3	16.84	131.24	4967.7	-279.7	319.1	0.00	0.00	424.4	
5	6144.7	0.00	0.00	6074.0	-387.7	442.3	1.50	180.00	588.1	4-21D-7-20 TGR3
6	10479.7	0.00	0.00	10409.0	-387.7	442.3	0.00	0.00	588.1	4-21D-7-20 PBHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3869.0	3876.7	GREEN RIVER
5064.0	5122.6	MAHOGANY
6074.0	6144.7	TGR3
6229.0	6299.7	DOUGLAS CRK
6964.0	7034.7	BLACK SHALE FACIES
7049.0	7119.7	CASTLE PEAK
7909.0	7979.7	WASATCH
10409.0	10479.7	TD

CASING DETAILS

No casing data is available



RECEIVED: May 03, 2012

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Planning Report

Database:	Compass	Local Co-ordinate Reference:	Site Aurora Federal 4-21D-7-20
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4827.0ft (Original Well Elev)
Project:	UINTAH COUNTY	MD Reference:	KB @ 4827.0ft (Original Well Elev)
Site:	Aurora Federal 4-21D-7-20	North Reference:	True
Well:	Aurora Federal 4-21D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Aurora Federal 4-21D-7-20		
Design:	Design #1		

Project	UINTAH COUNTY		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah North 4301		

Site		Aurora Federal 4-21D-7-20			
Site Position: From:		Northing:	-42,242.70 ft	Latitude:	40° 12' 10.130 N
	Lat/Long	Easting:	2,507,728.29 ft	Longitude:	109° 40' 56.960 W
	Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:

Well	Aurora Federal 4-21D-7-20					
Well Position	+N/-S	0.0 ft	Northing:	-42,242.71 ft	Latitude:	40° 12' 10.130 N
	+E/-W	0.0 ft	Easting:	2,507,728.29 ft	Longitude:	109° 40' 56.960 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,811.0 ft

Wellbore	Aurora Federal 4-21D-7-20				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/8/2012	11.10	65.98	52,349

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	131.24

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,122.4	16.84	131.24	4,106.3	-107.9	123.1	1.50	1.50	0.00	131.24	
5,022.3	16.84	131.24	4,967.7	-279.7	319.1	0.00	0.00	0.00	0.00	
6,144.7	0.00	0.00	6,074.0	-387.7	442.3	1.50	-1.50	0.00	180.00	4-21D-7-20 TGR3
10,479.7	0.00	0.00	10,409.0	-387.7	442.3	0.00	0.00	0.00	0.00	4-21D-7-20 PBHL

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Site Aurora Federal 4-21D-7-20
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4827.0ft (Original Well Elev)
Project:	UINTAH COUNTY	MD Reference:	KB @ 4827.0ft (Original Well Elev)
Site:	Aurora Federal 4-21D-7-20	North Reference:	True
Well:	Aurora Federal 4-21D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Aurora Federal 4-21D-7-20		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	1.50	131.24	3,100.0	-0.9	1.0	1.3	1.50	1.50	0.00
3,200.0	3.00	131.24	3,199.9	-3.5	3.9	5.2	1.50	1.50	0.00
3,300.0	4.50	131.24	3,299.7	-7.8	8.9	11.8	1.50	1.50	0.00
3,400.0	6.00	131.24	3,399.3	-13.8	15.7	20.9	1.50	1.50	0.00
3,500.0	7.50	131.24	3,498.6	-21.5	24.6	32.7	1.50	1.50	0.00
3,600.0	9.00	131.24	3,597.5	-31.0	35.4	47.0	1.50	1.50	0.00
3,700.0	10.50	131.24	3,696.1	-42.2	48.1	64.0	1.50	1.50	0.00
3,800.0	12.00	131.24	3,794.2	-55.0	62.8	83.5	1.50	1.50	0.00
3,876.7	13.15	131.24	3,869.0	-66.0	75.3	100.2	1.50	1.50	0.00
GREEN RIVER									
3,900.0	13.50	131.24	3,891.7	-69.6	79.4	105.5	1.50	1.50	0.00
4,000.0	15.00	131.24	3,988.6	-85.8	97.9	130.2	1.50	1.50	0.00
4,100.0	16.50	131.24	4,084.9	-103.7	118.3	157.3	1.50	1.50	0.00
4,122.4	16.84	131.24	4,106.3	-107.9	123.1	163.7	1.50	1.50	0.00
4,200.0	16.84	131.24	4,180.6	-122.7	140.0	186.2	0.00	0.00	0.00
4,300.0	16.84	131.24	4,276.3	-141.8	161.8	215.2	0.00	0.00	0.00
4,400.0	16.84	131.24	4,372.0	-160.9	183.6	244.1	0.00	0.00	0.00
4,500.0	16.84	131.24	4,467.7	-180.0	205.4	273.1	0.00	0.00	0.00
4,600.0	16.84	131.24	4,563.4	-199.1	227.1	302.1	0.00	0.00	0.00
4,700.0	16.84	131.24	4,659.2	-218.2	248.9	331.0	0.00	0.00	0.00
4,800.0	16.84	131.24	4,754.9	-237.3	270.7	360.0	0.00	0.00	0.00
4,900.0	16.84	131.24	4,850.6	-256.4	292.5	388.9	0.00	0.00	0.00
5,000.0	16.84	131.24	4,946.3	-275.5	314.3	417.9	0.00	0.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Site Aurora Federal 4-21D-7-20
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4827.0ft (Original Well Elev)
Project:	UINTAH COUNTY	MD Reference:	KB @ 4827.0ft (Original Well Elev)
Site:	Aurora Federal 4-21D-7-20	North Reference:	True
Well:	Aurora Federal 4-21D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Aurora Federal 4-21D-7-20		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,022.3	16.84	131.24	4,967.7	-279.7	319.1	424.4	0.00	0.00	0.00
5,100.0	15.67	131.24	5,042.2	-294.1	335.5	446.1	1.50	-1.50	0.00
5,122.6	15.33	131.24	5,064.0	-298.0	340.0	452.2	1.50	-1.50	0.00
MAHOGANY									
5,200.0	14.17	131.24	5,138.9	-311.0	354.8	471.9	1.50	-1.50	0.00
5,300.0	12.67	131.24	5,236.1	-326.3	372.3	495.1	1.50	-1.50	0.00
5,400.0	11.17	131.24	5,334.0	-339.9	387.8	515.7	1.50	-1.50	0.00
5,500.0	9.67	131.24	5,432.3	-351.9	401.4	533.8	1.50	-1.50	0.00
5,600.0	8.17	131.24	5,531.1	-362.1	413.1	549.3	1.50	-1.50	0.00
5,700.0	6.67	131.24	5,630.3	-370.6	422.8	562.2	1.50	-1.50	0.00
5,800.0	5.17	131.24	5,729.7	-377.4	430.6	572.6	1.50	-1.50	0.00
5,900.0	3.67	131.24	5,829.4	-382.5	436.4	580.3	1.50	-1.50	0.00
6,000.0	2.17	131.24	5,929.3	-385.8	440.2	585.4	1.50	-1.50	0.00
6,100.0	0.67	131.24	6,029.3	-387.5	442.1	587.8	1.50	-1.50	0.00
6,144.7	0.00	0.00	6,074.0	-387.7	442.3	588.1	1.50	-1.50	-293.33
TGR3									
6,200.0	0.00	0.00	6,129.3	-387.7	442.3	588.1	0.00	0.00	0.00
6,299.7	0.00	0.00	6,229.0	-387.7	442.3	588.1	0.00	0.00	0.00
DOUGLAS CRK									
6,300.0	0.00	0.00	6,229.3	-387.7	442.3	588.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,329.3	-387.7	442.3	588.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,429.3	-387.7	442.3	588.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,529.3	-387.7	442.3	588.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,629.3	-387.7	442.3	588.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,729.3	-387.7	442.3	588.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,829.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,929.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,034.7	0.00	0.00	6,964.0	-387.7	442.3	588.1	0.00	0.00	0.00
BLACK SHALE FACIES									
7,100.0	0.00	0.00	7,029.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,119.7	0.00	0.00	7,049.0	-387.7	442.3	588.1	0.00	0.00	0.00
CASTLE PEAK									
7,200.0	0.00	0.00	7,129.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,229.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,329.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,429.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,529.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,629.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,729.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,829.3	-387.7	442.3	588.1	0.00	0.00	0.00
7,979.7	0.00	0.00	7,909.0	-387.7	442.3	588.1	0.00	0.00	0.00
WASATCH									
8,000.0	0.00	0.00	7,929.3	-387.7	442.3	588.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,029.3	-387.7	442.3	588.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,129.3	-387.7	442.3	588.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,229.3	-387.7	442.3	588.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,329.3	-387.7	442.3	588.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,429.3	-387.7	442.3	588.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,529.3	-387.7	442.3	588.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,629.3	-387.7	442.3	588.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,729.3	-387.7	442.3	588.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,829.3	-387.7	442.3	588.1	0.00	0.00	0.00
9,000.0	0.00	0.00	8,929.3	-387.7	442.3	588.1	0.00	0.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Site Aurora Federal 4-21D-7-20
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4827.0ft (Original Well Elev)
Project:	UINTAH COUNTY	MD Reference:	KB @ 4827.0ft (Original Well Elev)
Site:	Aurora Federal 4-21D-7-20	North Reference:	True
Well:	Aurora Federal 4-21D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Aurora Federal 4-21D-7-20		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,100.0	0.00	0.00	9,029.3	-387.7	442.3	588.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,129.3	-387.7	442.3	588.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,229.3	-387.7	442.3	588.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,329.3	-387.7	442.3	588.1	0.00	0.00	0.00
9,500.0	0.00	0.00	9,429.3	-387.7	442.3	588.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,529.3	-387.7	442.3	588.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,629.3	-387.7	442.3	588.1	0.00	0.00	0.00
9,800.0	0.00	0.00	9,729.3	-387.7	442.3	588.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,829.3	-387.7	442.3	588.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,929.3	-387.7	442.3	588.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,029.3	-387.7	442.3	588.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,129.3	-387.7	442.3	588.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,229.3	-387.7	442.3	588.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,329.3	-387.7	442.3	588.1	0.00	0.00	0.00
10,479.7	0.00	0.00	10,409.0	-387.7	442.3	588.1	0.00	0.00	0.00
TD									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,876.7	3,869.0	GREEN RIVER		0.00		
5,122.6	5,064.0	MAHOGANY		0.00		
6,144.7	6,074.0	TGR3		0.00		
6,299.7	6,229.0	DOUGLAS CRK		0.00		
7,034.7	6,964.0	BLACK SHALE FACIES		0.00		
7,119.7	7,049.0	CASTLE PEAK		0.00		
7,979.7	7,909.0	WASATCH		0.00		
10,479.7	10,409.0	TD		0.00		

Entry 2011003529
 Book 1233 Page 103 \$12.00
 16-MAY-11 02:04
 RANDY SIMMONS
 RECORDER, UINTAH COUNTY, UTAH
 LAND PROFESSIONALS INC
 PO BOX 790093 VERNAL, UT 84079
 Rec By: DEBRA ROOKS , DEPUTY

RATIFICATION OF SURFACE USE AGREEMENT

State of Utah)(
 County of Uintah)(

Entry 2011003529
 Book 1233 Page 103

Pelican Lake Farms, LLC of P.O. Box 833, Meeker, CO 81641, has granted a Surface Use Agreement to Elk Resources, LLC of 1401 17th Street, Suite 700, Denver, CO 80202, dated October 29, 2010, for the purpose of drilling and producing oil, gas, and other minerals, laying pipelines, building roads, tanks, power stations, telephone lines and other structures, and producing, saving, take care of, treating, transporting, and owning oil, gas, and other minerals, all on or from Pelican Lake Federal 21-11-7-20 on the following lands (the "Lands") in Uintah County Utah: A tract of land lying in the NWNW of Section 21, Township 7 South, Range 20 East, SLM, Uintah County.

In a Warranty Deed, dated 03/30/2011, recorded 03/31/2011 in Book 1228, Page 456, Uintah County Records, Utah, Pelican Lake Farms, LLC, a Colorado Limited Liability Company conveyed the Lands to Cox Brothers Farms, Inc., an Idaho corporation.

NOW THEREFORE, the undersigned does hereby adopt, ratify and confirm the said Surface Use Agreement as to all of the terms and provisions therein. The undersigned hereby further declares that the said Surface Use Agreement in all of its terms and provisions is a valid and subsisting Surface Use Agreement, and declares that said Surface Use Agreement is binding upon the undersigned, and the undersigned's successors and assigns.

The Surface Use Agreement is effective as long thereafter as oil, gas, or other minerals are produced from the Lands, or other lands pooled with the Lands, according to and by the terms and provisions of the Lease(s) covering said Lands.

This instrument may be executed in multiple counterparts with each counterpart being considered an original for all purposes herein and binding upon the party executing same whether or not this instrument is executed by all parties hereto, and the signature and acknowledgment pages of the various counterparts hereto may be combined into one instrument for the purposes of recording this instrument in the records of the County Recorder's office.

Executed this 13 day of May, 2011.

SURFACE OWNER:

Cox Brothers Farms, Inc., an Idaho Corporation

Gary L. Cox
 Gary L. Cox,
 President and Director

W. Harrison Cox
 W. Harrison Cox,
 Vice-President and Director

ACKNOWLEDGEMENT

STATE OF UTAH }
 }:SS
COUNTY OF UINTAH }

BEFORE me, the undersigned, a Notary Public in and fore said County and State, on this 13th day of May, 2011, personally appeared Gary L. Cox, President and Director of Cox Brothers Farms, Inc., an Idaho corporation known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth. Given under my hand and seal the day and year last above written.

Terra M. Miller
Notary Public

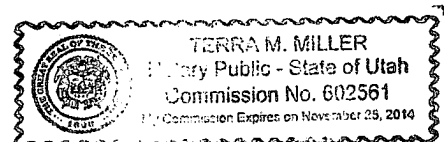


ACKNOWLEDGEMENT

STATE OF UTAH }
 }:SS
COUNTY OF UINTAH }

BEFORE me, the undersigned, a Notary Public in and fore said County and State, on this 13th day of May, 2011, personally appeared W. Harrison Cox, Vice-President and Director of Cox Brothers Farms, Inc., an Idaho corporation known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth. Given under my hand and seal the day and year last above written.

Terra M. Miller
Notary Public



SURFACE USE PLAN

BILL BARRETT CORPORATION

Aurora Federal #4-21D-7-20

NW NW, 267' FNL and 223' FWL, Section 21, T7S-R20E, SLB&M (surface hole)

NW NW, 660' FNL and 660' FWL, Section 21, T7S-R20E, SLB&M (bottom hole)

Uintah County, Utah

The onsite inspection for this pad occurred on April 28, 2011. Site specific conditions or changes as a result of that onsite are indicated below. Plat changes requested at the onsite are reflected within this APD.

- a) The entire wellpad will be fenced per Surface Owner.
- b) A gate will be installed at the existing fence line between the two pastures per Surface Owner.

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

- a. The proposed well site is located approximately 22.2 miles southwest of Vernal, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing Highway 40 will be utilized trending southwest to Highway 88 which will then be utilized to the planned new access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Uintah County Road Department maintenance are necessary to access the project area with no improvements proposed. A Uintah County Encroachment Permit has been obtained.
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

Bill Barrett Corporation
Surface Use Plan
Aurora Federal #4-21D-7-20
Uintah County, UT

2. Planned Access Road:

- a. Approximately 31 feet of new access road to be constructed is proposed (see Topographic Map B).
- b. The planned access road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed.
- i. No culverts and no low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.

Bill Barrett Corporation
Surface Use Plan
Aurora Federal #4-21D-7-20
Uintah County, UT

- j. One cattleguard will be installed at the fenceline near the pad entrance as shown on Topographic Map B.
 - k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
 - l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
 - m. The operator would be responsible for all maintenance needs of the new access road.
3. Location of Existing Wells (see One-Mile Radius Map):
- a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:
 - i. water wells none
 - ii. injection wells none
 - iii. disposal wells none
 - iv. drilling wells none
 - v. temp shut-in wells none
 - vi. producing wells three
 - vii. abandoned wells one
4. Location of Production Facilities
- a. Surface facilities would consist of a wellhead, separator, gas meter, combustor, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or ESP or gas lift unit, electrical or with a natural gas or diesel fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
 - b. Most wells would be fitted with a pump jack or Roto-flex unit or ESP or gas lift to assist liquid production. The prime mover for pump jacks or Roto-flex units would be small (100 horsepower or less), electric motor or natural gas or diesel fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 25 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by electricity.
 - c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single

Bill Barrett Corporation
Surface Use Plan
Aurora Federal #4-21D-7-20
Uintah County, UT

tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.

- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 110 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 12 inch in diameter, one water line up to 8 inch in diameter and one residue line up to 4 inch in diameter) is proposed trending east to an existing pipeline corridor. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the existing pipeline servicing nearby BBC wells. The pipeline crosses entirely private surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- i. All permanent above-ground structures would be painted a flat, non-reflective color, such as Covert Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- j. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- k. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

Bill Barrett Corporation
 Surface Use Plan
 Aurora Federal #4-21D-7-20
 Uintah County, UT

5. Location and Type of Water Supply:

- a. Water for the drilling and completion would be trucked from any of the following locations:

Water Right No. and Application or Change No.	Applicant	Allocation	Priority Date	Point of Diversion	Source
49-1645 (A35800)	RN Industries, Inc.	50 ac-ft	4/10/2011	Sec 9, T8S- R20E	Underground Well
49-2336 (t78808)	RN Industries, Inc.	20 ac-ft	4/7/2011	Sec 33, T8S-R20E	Green River
43-8496 (A53617)	A-1 Tank Rental	0.015 cfs	8/17/1979	Sec 32, T4S-R3E	Underground Well
43-10288 (A65273)	Nile Chapman (RNI)	0.45 ac-ft	4/4/1991	Sec 9, T2S- R2W	Underground Well

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.

6. Source of Construction Material:

- a. The use of materials would conform to 43 CFR 3610.2-3.
- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.

Bill Barrett Corporation
 Surface Use Plan
 Aurora Federal #4-21D-7-20
 Uintah County, UT

- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

Disposal Facilities
1. LaPoint Recycle & Storage – Sec. 12, T5S-R19E
2. Dalbo, Inc. Ace Disposal, Sec. 35, T5S-R20W & Sec. 2, T6S-R20W

- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO₂ gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a

Bill Barrett Corporation
Surface Use Plan
Aurora Federal #4-21D-7-20
Uintah County, UT

week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.

- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- l. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.
- m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

8. Ancillary Facilities:

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.
- c. A surface powerline corridor is proposed for installation by a third-party installer. All necessary permits will be obtained by the contractor.

9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.

Bill Barrett Corporation
Surface Use Plan
Aurora Federal #4-21D-7-20
Uintah County, UT

- d. The pad has been staked at its maximum size of 400 feet x 300 feet with an inboard reserve pit size of 100 feet x 225 feet x 10 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan would be submitted, if requested, within 90 days of location construction to the surface managing agency or the fee landowners.
- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43

Bill Barrett Corporation
Surface Use Plan
Aurora Federal #4-21D-7-20
Uintah County, UT

CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.

- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the seed mix specified by the surface owner.
- f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the surface owner prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

11. Surface and Mineral Ownership:

- a. Surface ownership –
 - Pelican Lake Farms (Wellpad and Access Road)
P.O. Box 833 Meeker, CO 81641
970-878-4331 (Bryce Purkey)
- b. Mineral ownership – Federal under the management of the BLM – Vernal Field Office.

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as report 11-245 dated September 26, 2011.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
 - No dogs or firearms within the Project Area.
 - No littering within the Project Area.
 - Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette

Bill Barrett Corporation
Surface Use Plan
Aurora Federal #4-21D-7-20
Uintah County, UT

butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.

- Campfires or uncontained fires of any kind would be prohibited.
- Portable generators used in the Project Area would have spark arrestors.

d. Disturbance estimates:

Approximate Acreage Disturbances

Well Pad		4.081	acres
Access	31 feet	0.021	acres
Pipeline	110 feet	0.075	acres
Total		4.177	acres

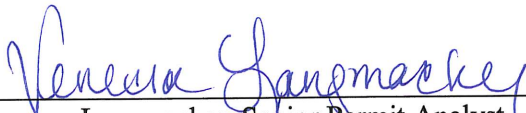
Bill Barrett Corporation
Surface Use Plan
Aurora Federal #4-21D-7-20
Uintah County, UT

OPERATOR CERTIFICATION

Certification:

I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

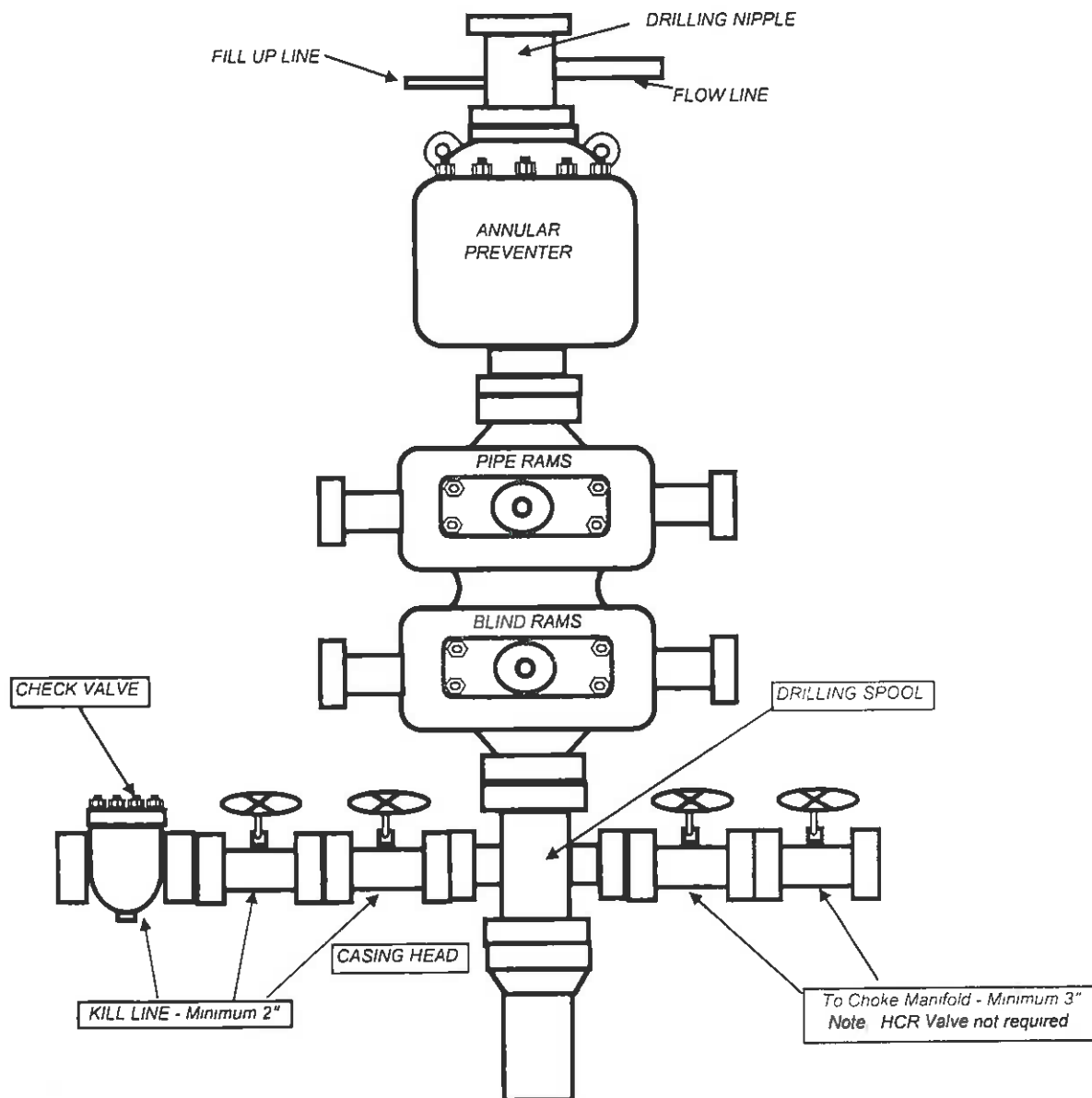
Executed this	<u>3rd</u> day of <u>May</u> 2012
Name:	Venessa Langmacher
Position Title:	Senior Permit Analyst
Address:	1099 18 th Street, Suite 2300, Denver, CO 80202
Telephone:	303-312-8172
E-mail:	vlangmacher@billbarrettcorp.com
Field Representative	Kary Eldredge / Bill Barrett Corporation
Address:	1820 W. Highway 40, Roosevelt, UT 84066
Telephone:	435-725-3515 (office); 435-724-6789 (mobile)
E-mail:	keldredge@billbarrettcorp.com



Venessa Langmacher, Senior Permit Analyst

BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER





May 3, 2012

Utah Division of Oil, Gas and Mining
Attention: Dustin Doucet
1594 West North Temple, Suite 1120
Salt Lake City, Utah

RE: Commingling Application
Aurora Deep Unit
Aurora Federal 4-21D-7-20
NWNW Section 21, T7S-R20E
Uintah County, UT

Dear Mr. Doucet,

Bill Barrett Corporation has submitted an application to commingle production from the Wasatch and Green River formations in the subject well located in the Aurora Deep Unit. In compliance with Utah OGM regulation R649-3-22, BBC has enclosed copies of the application.

Should you require additional information in this regards, please feel free to contact me at 303-299-9935. Your earliest attention to this matter is appreciated.

BILL BARRETT CORPORATION



Thomas J. Abell
Landman

Enclosures



AFFIDAVIT OF NOTICE

My name is Thomas J. Abell. I am a Landman with Bill Barrett Corporation (BBC). BBC has submitted an application to commingle production from the Wasatch and Green River formations in the following well within the Aurora Deep Field:

Aurora Federal 4-21D-7-20 located in T7S-R20E Section 21: NWNW

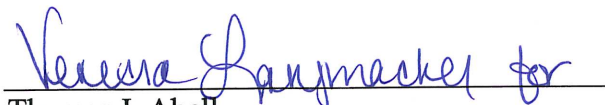
In compliance with the Utah OGM regulation R649-3-22, I have provided a copy of the application, by certified mail, to the owners as listed below of all contiguous oil and gas Leases or drilling units overlying the pool.

Lessees

EnCana Oil & Gas (USA) Inc.
Forest Oil Corporation

Date: May 3, 2012

Affiant:



Thomas J. Abell
Landman



May 3, 2012

Forest Oil Corporation
Attn: Ken Mcphee
707 17th St # 3600
Denver, CO 80202

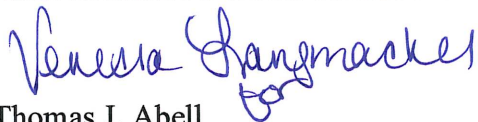
RE: Commingling Application
Aurora Federal 4-21D-7-20
Uintah County, UT

Dear Mr. Mcphee,

Bill Barrett Corporation has submitted an application to commingle production from the Wasatch and Green River formations in the subject well. We enclosed herewith copies of the application together with a plat showing the leases and wells in the area and affidavit confirming notice pursuant to the Utah OGM regulations.

Should you require additional information in this regards, please feel free to contact me at 303-299-9935. Your earliest attention to this matter is appreciated.

BILL BARRETT CORPORATION



Thomas J. Abell
Landman

Enclosures



May 3, 2012

EnCana Oil & Gas (USA), Inc.
Attn: Judy Tatham
370 17th Street, Suite 1700
Denver, CO 80202

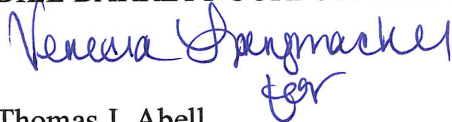
RE: Commingling Application
Aurora Federal 4-21D-7-20
Uintah County, UT

Dear Ms. Tatham,

Bill Barrett Corporation has submitted an application to commingle production from the Wasatch and Green River formations in the subject well. We enclosed herewith copies of the application together with a plat showing the leases and wells in the area and affidavit confirming notice pursuant to the Utah OGM regulations.

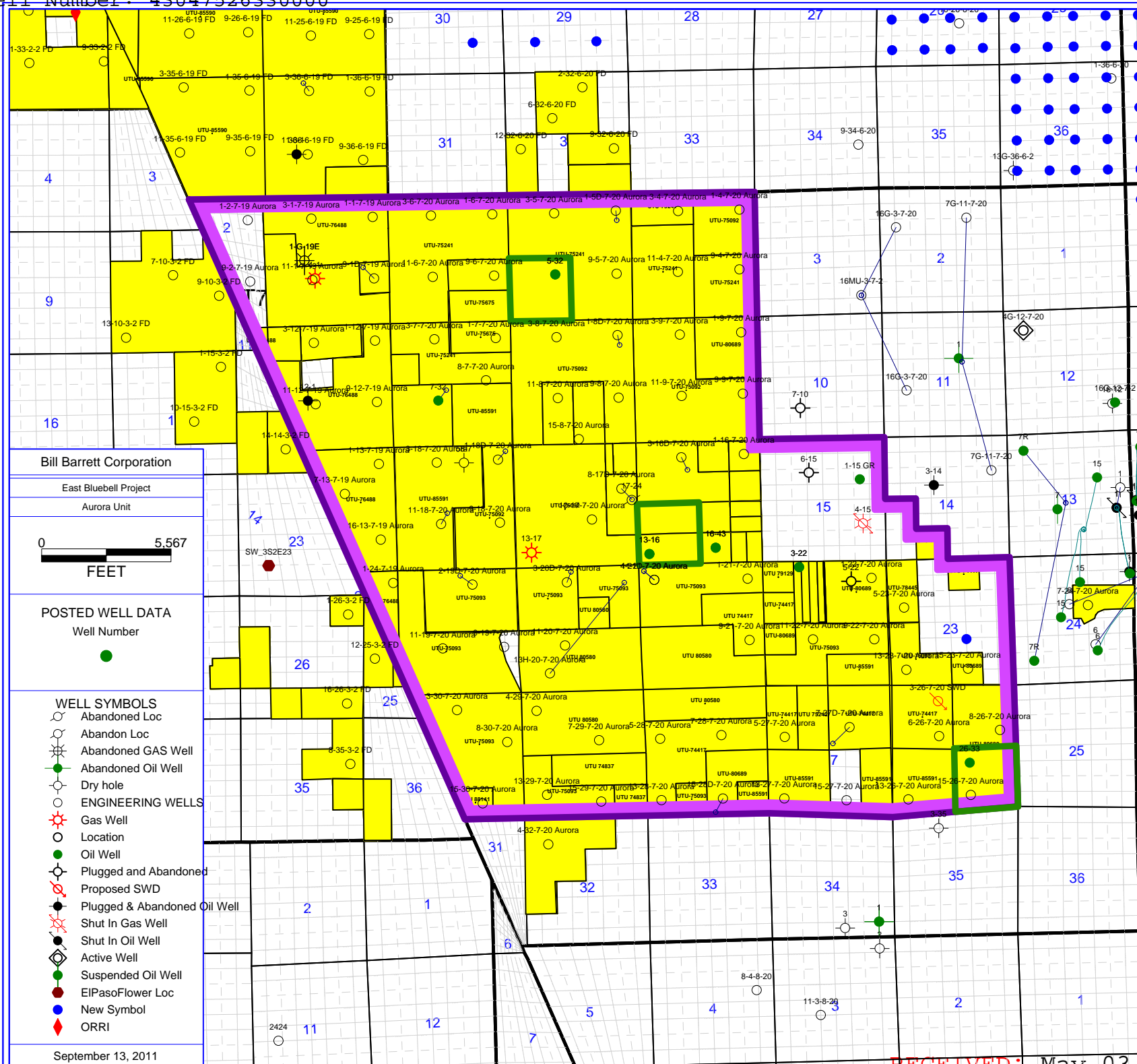
Should you require additional information in this regards, please feel free to contact me at 303-299-9935. Your earliest attention to this matter is appreciated.

BILL BARRETT CORPORATION



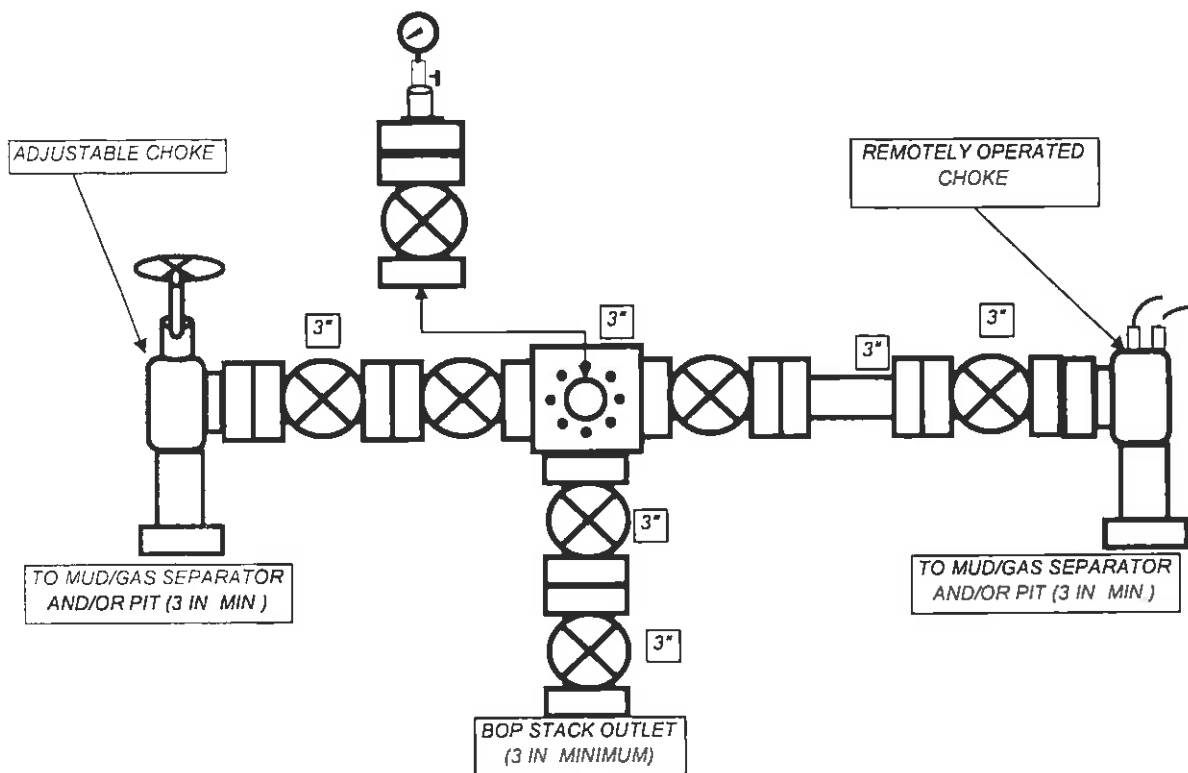
Thomas J. Abell
Landman

Enclosures



BILL BARRETT CORPORATION

TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





May 3, 2012

Ms. Diana Mason – Petroleum Technician
State of Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Directional Drilling **Aurora Federal 4-21D-7-20**

East Bluebell Area

Surface: 267' FNL, 223' FWL, NWNW, 21-T7S-R20E SLM
Bottom Hole: 660' FNL, 660' FWL, NWNW, 21-T7S-R20E SLM
Uintah County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

- The proposed location is within our East Bluebell Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under UTU-75093.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with EnCana, we own 100% of the working interest in these lands.
- Attached please find Encana's consent to the directional drilling of this well.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-299-9935.

Sincerely,

Thomas Abell *for*
Landman

1099 18TH STREET
SUITE 2300
DENVER, CO 80202
P 303.293.9100
F 303.291.0420



X Encana consents to the directional drilling of Aurora Federal 4-21D-7-20

 Encana does NOT consent to the directional drilling of Aurora Federal 4-21D-7-20

By: _____

Title: _____

Date: _____

[Handwritten signature: Andrew M. Kethan]
[Handwritten title: Land Negotiator] *[Handwritten date: 3/19/2012]*

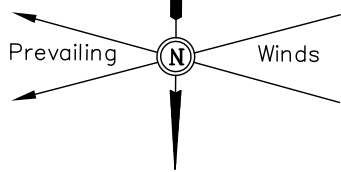
1099 18TH STREET
SUITE 2300
DENVER, CO 80202
P 303.293.9100
F 303.291.0420

BILL BARRETT CORPORATION

LOCATION LAYOUT FOR

AURORA FEDERAL #4-21D-7-20
SECTION 21, T7S, R20E, S.L.B.&M.
267' FNL 223' FWL

FIGURE #1



SCALE: 1" = 60'
DATE: 11-02-10
DRAWN BY: K.G.
REV: 07-26-11 Z.L.

Approx.
Toe of
Fill Slope

NOTE:
Flare Pit is to be
located a min. of 100'
from the Well Head.

S48°47'15"E - 588.45'
(To Bottom Hole)

El. 810.1'
C-9.9'
(Btm. Pit)

RESERVE PITS
(10' Deep)

Total Pit Capacity
W/2' of Freeboard
= 24,250 Bbls.±
Total Pit Volume
= 6,640 Cu. Yds

El. 811.6'
C-11.4'
(Btm. Pit)

C-2.3'
El. 812.5'

Existing Road

Section 21

Section 16

Elev. Ungraded Ground At Loc. Stake = 4810.7'
FINISHED GRADE ELEV. AT LOC. STAKE = 4810.2'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

Existing
Powerline

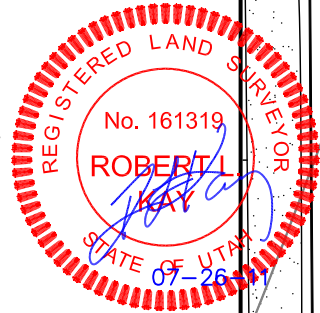
Section 21
Section 20

Topsoil Stockpile

F-0.8'
El. 809.4'

Sta. 4+00
C-0.7'
El. 810.9'

Cut/Fill
Transition Line



F-0.1'
El. 810.1'

C-0.1'
El. 810.3'

C-0.5'
El. 810.7'

C-0.4'
El. 810.6'

Sta. 2+00
C-2.2'
El. 812.4'

Sta. 1+00

C-2.3'
El. 812.5'

Sta. 0+00

Proposed
Access Road
Install Cattle
Guard

C-2.9'
El. 813.1'

NW Cor.
Sec. 21

RECEIVED: May 03, 2012

BILL BARRETT CORPORATION

TYPICAL CROSS SECTIONS FOR

AURORA FEDERAL #4-21D-7-20
SECTION 21, T7S, R20E, S.L.B.&M.
267' FNL 223' FWL

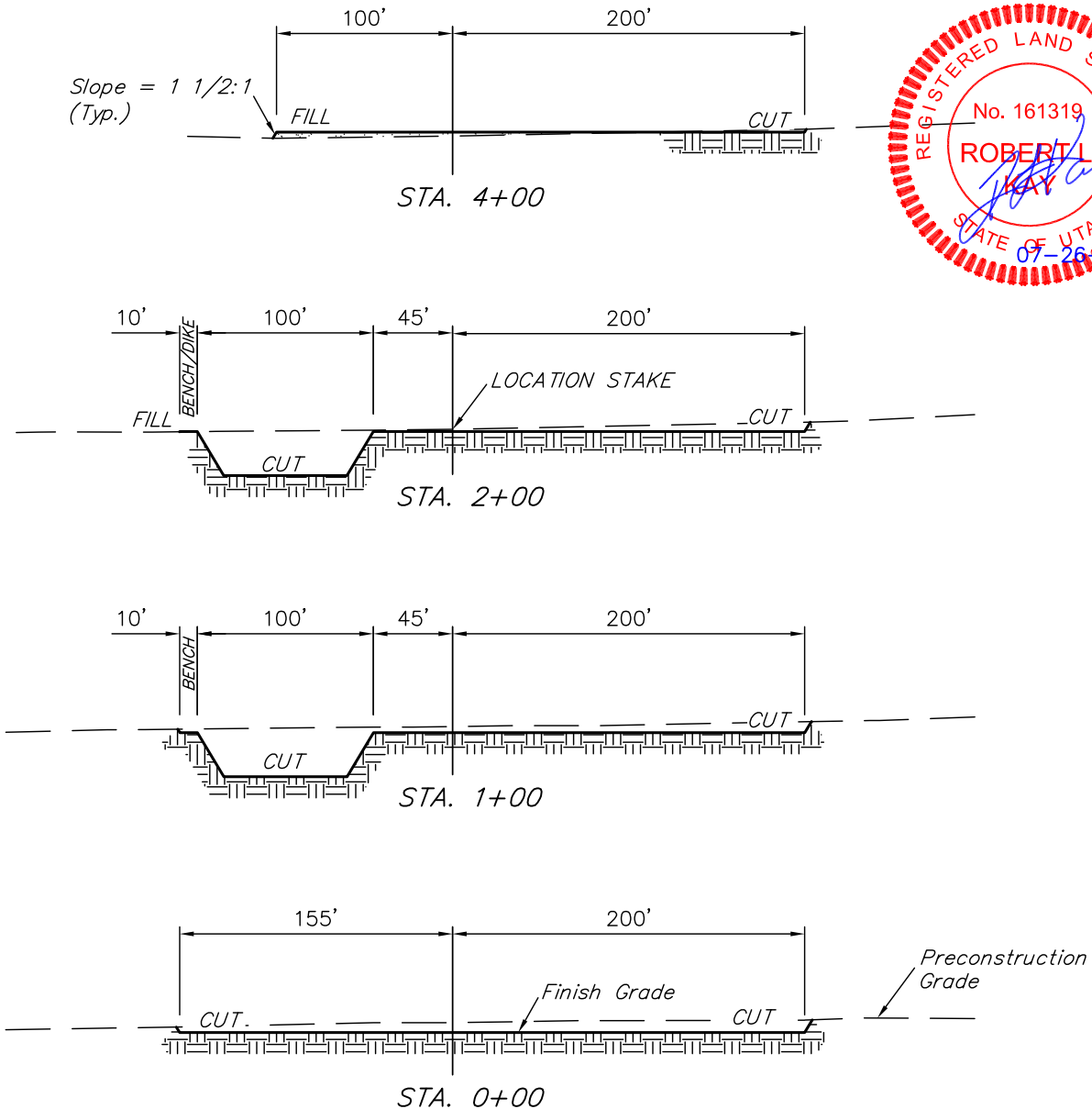
FIGURE #2

X-Section
Scale
1" = 100'

DATE: 11-02-10

DRAWN BY: K.G.

REV: 07-26-11 Z.L.



NOTE:

Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping = 5,160 Cu. Yds.
Remaining Location = 8,290 Cu. Yds.
TOTAL CUT = 13,450 CU.YDS.
FILL = 2,030 CU.YDS.

EXCESS MATERIAL = 11,420 Cu. Yds.
Topsoil & Pit Backfill = 8,480 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 2,940 Cu. Yds.
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: May 03, 2012

BILL BARRETT CORPORATION

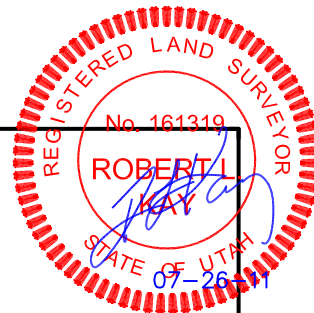
TYPICAL RIG LAYOUT FOR

AURORA FEDERAL #4-21D-7-20
SECTION 21, T7S, R20E, S.L.B.&M.
267' FNL 223' FWL

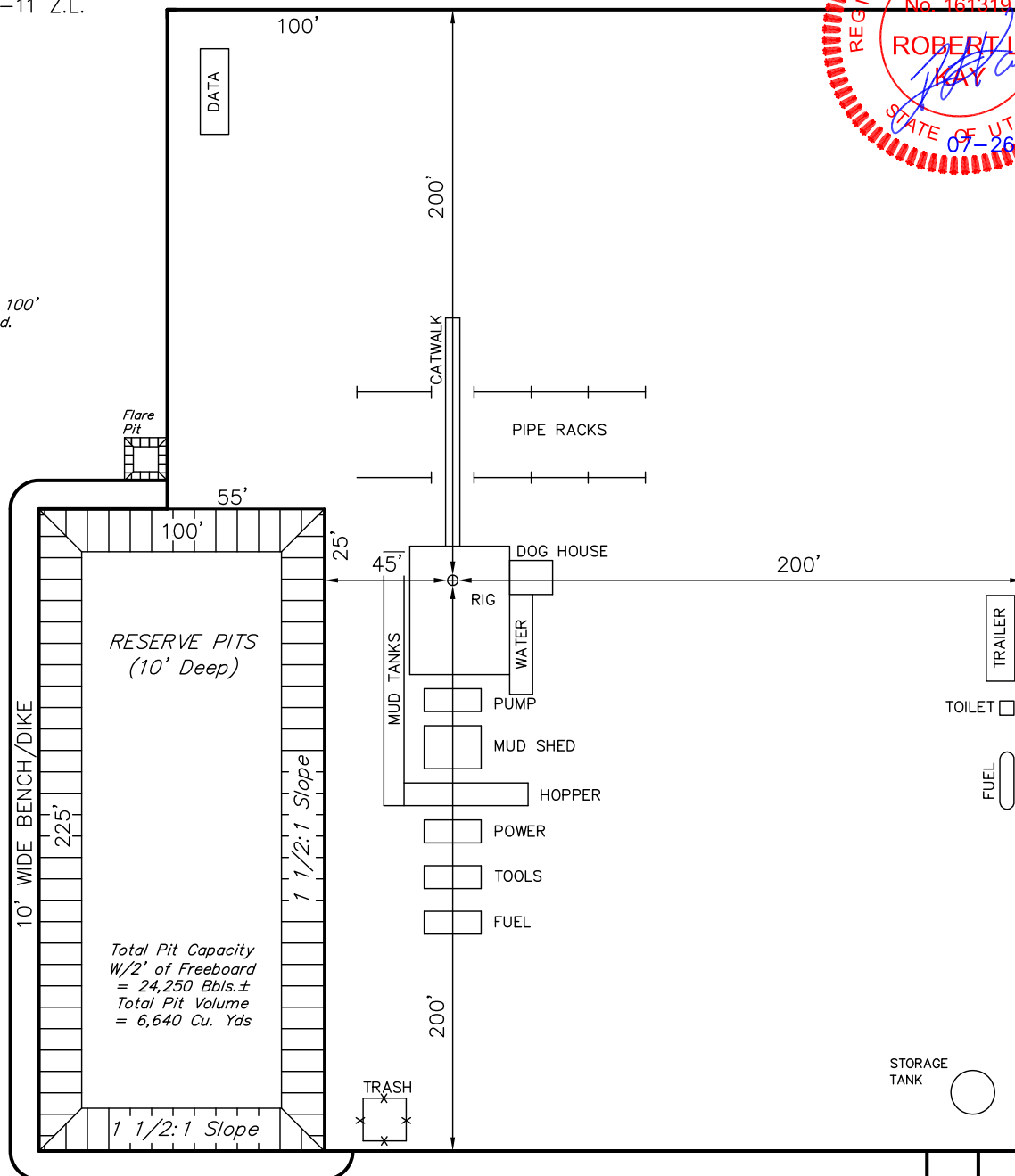
FIGURE #3



SCALE: 1" = 60'
DATE: 11-02-10
DRAWN BY: K.G.
REV: 07-26-11 Z.L.



NOTE:
Flare Pit is to be
located a min. of 100'
from the Well Head.



BILL BARRETT CORPORATION

INTERIM RECLAMATION PLAN FOR

AURORA FEDERAL #4-21D-7-20
SECTION 21, T7S, R20E, S.L.B.&M.
267' FNL 223' FWL

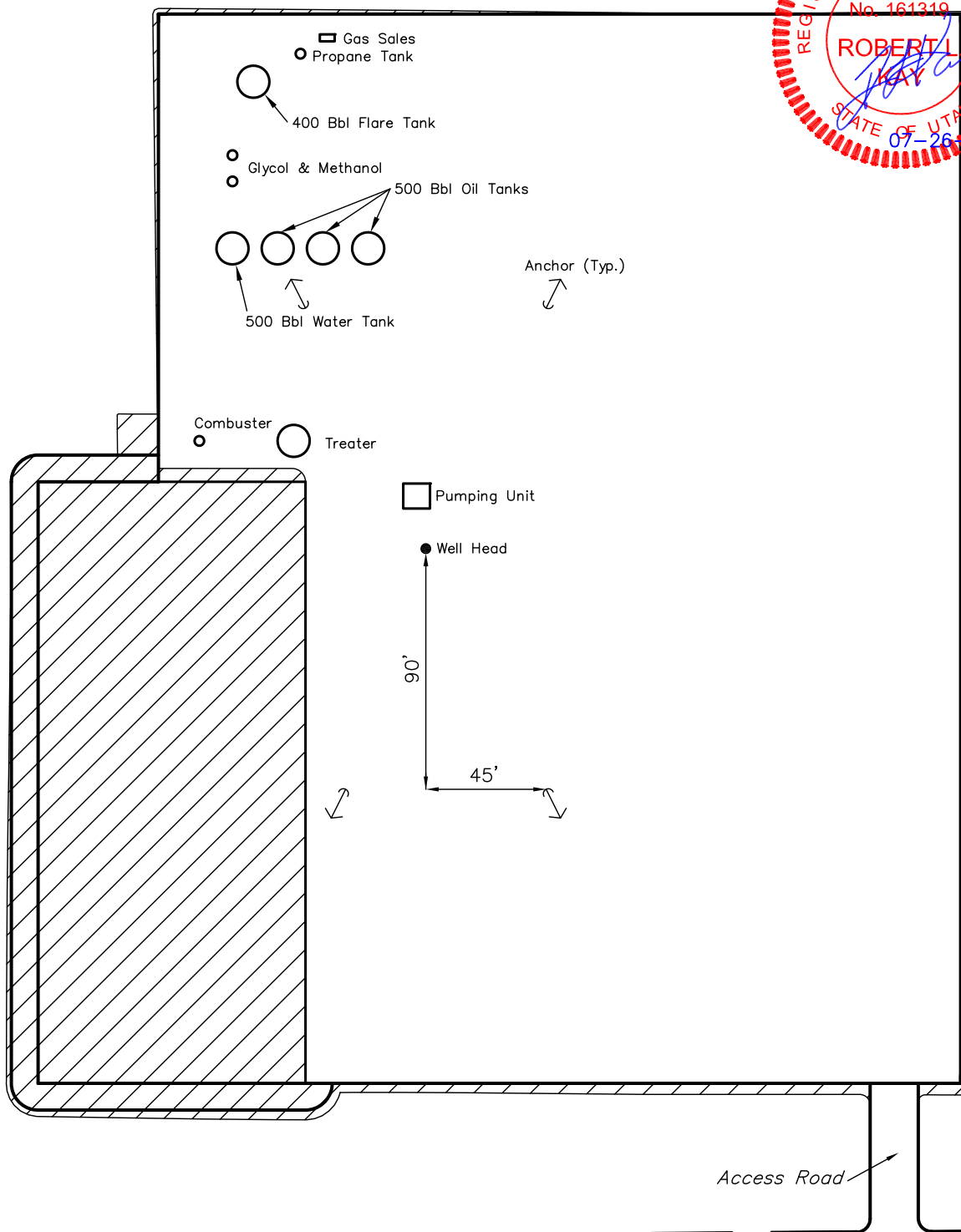
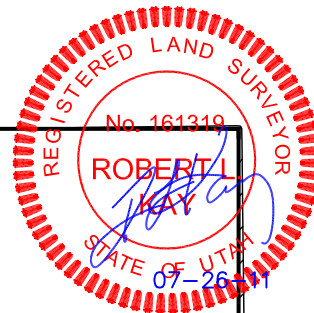
FIGURE #4

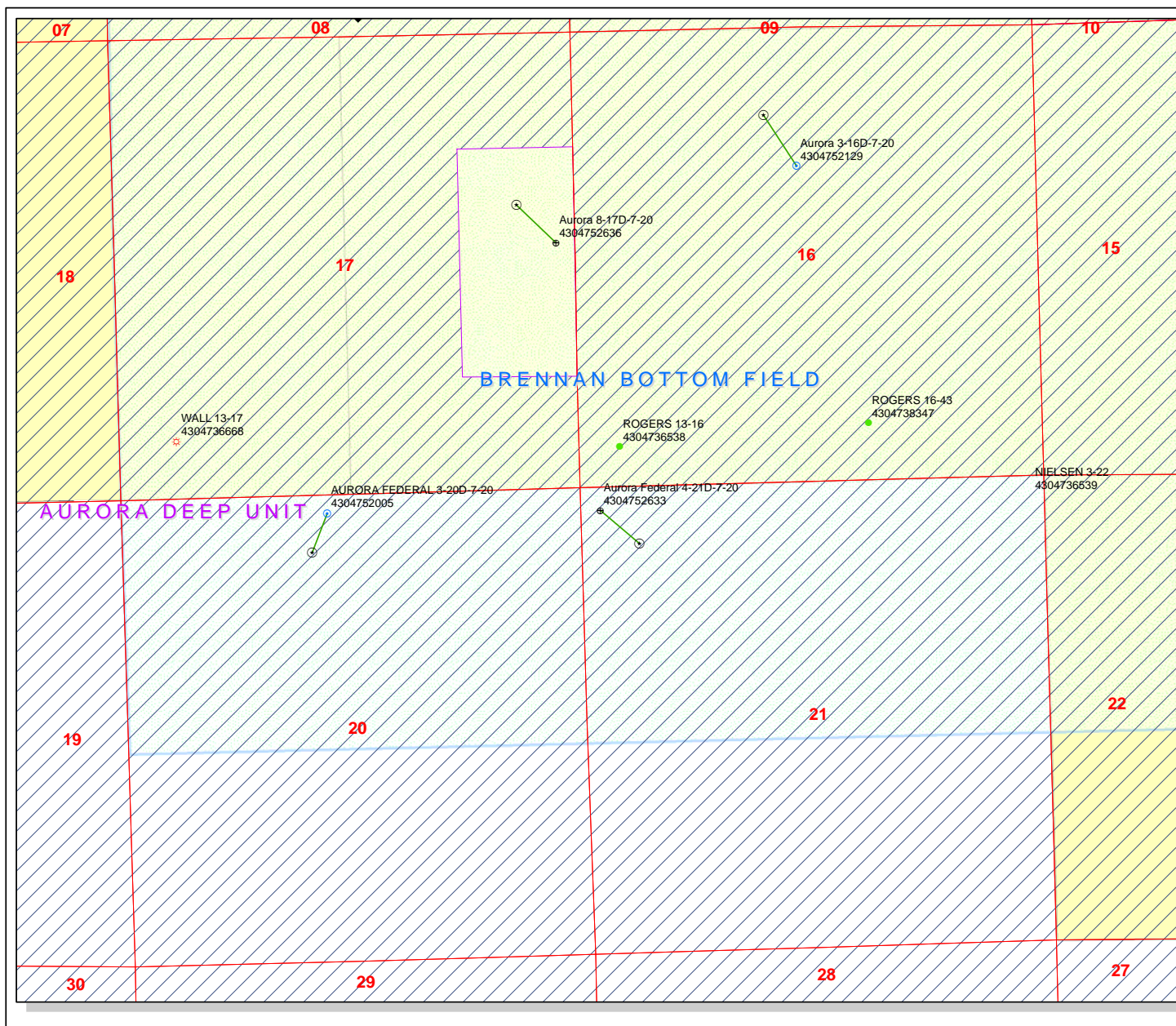


SCALE: 1" = 60'

DATE: 07-26-11

DRAWN BY: Z.L.

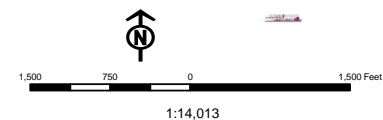




API Number: 4304752633
Well Name: Aurora Federal 4-21D-7-20
Township T0.7 . Range R2.0 . Section 21
Meridian: SLBM
Operator: BILL BARRETT CORP

Map Prepared:
Map Produced by Diana Mason

Units	Wells Query
STATUS	Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERMAL	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Fields	Status
Unknown	SGW - Shut-in Gas Well
ABANDONED	SOW - Shut-in Oil Well
ACTIVE	TA - Temp. Abandoned
COMBINED	TW - Test Well
INACTIVE	WDW - Water Disposal
STORAGE	WW - Water Injection Well
TERMINATED	WSW - Water Supply Well



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

May 14, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Aurora (Deep) Unit,
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Aurora (Deep) Unit, Uintah County, Utah.

API #	LOCATION	WELL NAME
(Proposed PZ GREEN RIVER-WASATCH)		
43-047-52632	Aurora 2-19D-7-20	Sec 19 T07S R20E 0265 FNL 2402 FEL BHL Sec 19 T07S R20E 0660 FNL 1980 FEL
43-047-52633	Aurora 4-21D-7-20	Sec 21 T07S R20E 0267 FNL 0223 FWL BHL Sec 21 T07S R20E 0660 FNL 0660 FWL
43-047-52642	Aurora 7-27D-7-20	Sec 27 T07S R20E 2495 FNL 2491 FEL BHL Sec 27 T07S R20E 1980 FNL 1980 FEL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2012.05.14 12:21:32 -0600

bcc: File - Aurora Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:5-14-12

RECEIVED: May 15, 2012

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator BILL BARRETT CORP
Well Name Aurora Federal 4-21D-7-20
API Number 43047526330000 **APD No** 5819 **Field/Unit** BRENNAN BOTTOM
Location: 1/4,1/4 NWNW **Sec** 21 **Tw** 7.0S **Rng** 20.0E 267 FNL 223 FWL
GPS Coord (UTM) 612069 4451098 **Surface Owner** Pelican Lake Farms, LLC

Participants

Don Hamilton (permit contractor), Kary Eldredge (BBC), Cody Rich (surveyor), Davie Stokes (EIS)

Regional/Local Setting & Topography

This proposed location sits approximately less than a .25 mile north of Pelican Lake. The land slopes toward the lake and it appears that during high water years the water could come much closer than .25 mile. Vernal Utah is approximately 22 miles by road to the north east

Surface Use Plan

Current Surface Use

Grazing

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.006	Width 300 Length 400	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands Y

lies directly adjacent to Pelican Lake shoreline

Flora / Fauna

Used as cattle pasture

Various pasture grasses, but very beaten down at this time due to to current grazing

Soil Type and Characteristics

Loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N**Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N****Reserve Pit**

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)		20
Distance to Surface Water (feet)	300 to 1000	2
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		52 1 Sensitivity Level

Characteristics / Requirements

The reserve pit as proposed is 225' x 100' x 10' deep and is placed in a cut stable location.
 A reserve pit will not be allowed on this site.

Closed Loop Mud Required? Y Liner Required? Liner Thickness Pit Underlayment Required?

Other Observations / Comments

Richard Powell
Evaluator

6/19/2012
Date / Time

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
5819	43047526330000	LOCKED	OW	P	No
Operator	BILL BARRETT CORP		Surface Owner-APD	Pelican Lake Farms, LLC	
Well Name	Aurora Federal 4-21D-7-20		Unit	AURORA (DEEP)	
Field	BRENNAN BOTTOM		Type of Work	DRILL	
Location	NWNW 21 7S 20E S 267 FNL (UTM) 612072E 4451097N		223 FWL GPS Coord		

Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Federal Government. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill
APD Evaluator

7/30/2012
Date / Time

Surface Statement of Basis

This proposed location is on fee land owned by Cox Brothers Farms. Harrison Cox and Gary Cox were on site. This location is within .25 mile of Pelican Lake and this is not a suitable site for placement of this well. There is a close by well pad to the north east which appears to be a possible site for this location. At the time of this inspection Kary Eldredge of BBC stated that the existing pad is too far. In any case, the proposed location appears too close to Pelican Lake in light of the nearby presence of an existing well pad. The nearby well UTM's are 612138 4451315.

Scott Hacking of DEQ visited this site on 7/2/2012 and expressed that he would like to see the well moved farther from the lake. If approved at this site, there must be closed loop mud system and a large berm around the well to reduce the chance of fluids ever leaving the well site.

Richard Powell
Onsite Evaluator

6/19/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A closed loop mud circulation system is required for this location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/3/2012

API NO. ASSIGNED: 43047526330000

WELL NAME: Aurora Federal 4-21D-7-20

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: NWNW 21 070S 200E

Permit Tech Review: ☒

SURFACE: 0267 FNL 0223 FWL

Engineering Review: ☒

BOTTOM: 0660 FNL 0660 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 40.20280

LONGITUDE: -109.68318

UTM SURF EASTINGS: 612072.00

NORTHINGS: 4451097.00

FIELD NAME: BRENNAN BOTTOM

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-75093

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ PLAT
- ☒ Bond: FEDERAL - WYB000040
- ☐ Potash
- ☐ Oil Shale 190-5
- ☐ Oil Shale 190-3
- ☐ Oil Shale 190-13
- ☒ Water Permit: 43-2336
- ☐ RDCC Review:
- ☒ Fee Surface Agreement
- ☒ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

- ☐ R649-2-3.
- Unit: AURORA (DEEP)
- ☐ R649-3-2. General
- ☒ R649-3-3. Exception
- ☒ Drilling Unit
- Board Cause No: R649-3-11
- Effective Date:
- Siting:
- ☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations:

- 1 - Exception Location - bhill
- 3 - Commingle - ddoucet
- 4 - Federal Approval - dmason
- 5 - Statement of Basis - bhill
- 15 - Directional - dmason
- 23 - Spacing - dmason

RECEIVED: December 17, 2012



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Aurora Federal 4-21D-7-20
API Well Number: 43047526330000
Lease Number: UTU-75093
Surface Owner: FEE (PRIVATE)
Approval Date: 12/17/2012

Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-11. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

Commingle:

Administrative approval for commingling the production from the Wasatch formation and the Green River formation in this well is hereby granted. Appropriate information has been submitted to DOGM in accordance with R649-3-22. No written objections from owners were received by DOGM.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall

submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", is written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75093																														
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)																														
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: Aurora Federal 4-21D-7-20																														
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43047526330000																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0267 FNL 0223 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 21 Township: 07.0S Range: 20.0E Meridian: S		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM																														
COUNTY: UINTAH		STATE: UTAH																														
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																																
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/1/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>																														
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. BBC is submitting this sundry to request permission to change the production hole size from 8-3/4" to 7-7/8". Surface hole and casing size, production casing size, and the TD will remain the same as original permitted. Please see the attached revised drilling plan and cement calculator. Please contact Brady Riley at 303-312-8115 with any questions in regard to the proposed change.																																
NAME (PLEASE PRINT) Brady Riley		PHONE NUMBER 303 312-8115																														
SIGNATURE N/A		TITLE Permit Analyst																														
DATE 2/26/2013		Accepted by the Utah Division of Oil, Gas and Mining Date: March 05, 2013 By: <u>Dark Ount</u>																														

BILL BARRETT CORPORATION
DRILLING PLAN REVISED

Aurora Federal 4-21D-7-20

NW NW, 267' FNL and 223' FWL, Section 21, T7S-R20E, SLB&M (surface hole)

NW NW, 660' FNL and 660' FWL, Section 21, T7S-R20E, SLB&M (bottom hole)

Uintah County, Utah

1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth - TVD</u>
Lower Green River*	6,144'	6,074'
Douglas Creek	6,299'	6,229'
Black Shale	7,034'	6,964'
Castle Peak	7,119'	7,049'
Wasatch*	7,979'	7,909'
TD	10,480'	10,409'

*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 334'

3. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 2,000'	No pressure control required
2,000' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

4. Casing Program

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	2,000'	9 5/8"	36#	J or K 55	ST&C	New
7 7/8"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

*The casing program is based on recent wells drilled by Axia in the immediate area.

9-5/8" casing may be preset with a spudder rig. If this occurs, the following equipment shall be in place and operational during air/gas drilling:

Bill Barrett Corporation
 Drilling Program **REVISED**
 Aurora Federal #4-21D-7-20
 Uintah County, Utah

- Properly lubricated and maintained rotating head
- Spark arresters on engines or water cooled exhaust
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run on blooie line unless otherwise approved
- Deduster equipment
- All cuttings and circulating medium shall be directed into a reserve or blooie pit
- Float valve above bit
- Automatic igniter or continuous pilot light on the blooie line
- Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the well bore
- Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits

5. **Cementing Program**

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 280 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft ³ /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft ³ /sx), calculated hole volume with 75% excess. TOC @ 1,500'
5 1/2" Production Casing	Lead: 570 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft ³ /sx). TOC @ 1,500' Tail: 730 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft ³ /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 6,534'

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 2,000'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,000' – TD	8.6 – 9.6	42 – 52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. **Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

Bill Barrett Corporation
Drilling Program **REVISED**
Aurora Federal #4-21D-7-20
Uintah County, Utah

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5196 psi* and maximum anticipated surface pressure equals approximately 2906 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

**Maximum surface pressure = A – (0.22 x TD)

9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
 - b) Inside BOP or stab-in valve (available on rig floor)
 - c) Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Green River located in Sec. 33, T8S-R20E.

11. Drilling Schedule

Location Construction:	July 2013
Spud:	July 2013
Duration:	15 days drilling time
	45 days completion time



Bill Barrett Corporation

AURORA CEMENT VOLUMES

Well Name: Aurora Federal 4-21D-7-20

Surface Hole Data:

Total Depth:	2,000'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

Calculated Data:

Lead Volume:	822.1	ft ³
Lead Fill:	1,500'	
Tail Volume:	274.0	ft ³
Tail Fill:	500'	

Cement Data:

Lead Yield:	3.16	ft ³ /sk
% Excess:	75%	
Top of Lead:	0'	

Calculated # of Sacks:

# SK's Lead:	280
--------------	-----

Tail Yield:	1.36	ft ³ /sk
% Excess:	75%	
Top of Tail:	1,500'	

# SK's Tail:	210
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Production Hole Data:

Total Depth:	10,480'
Top of Cement:	1,500'
Top of Tail:	6,534'
OD of Hole:	7.875"
OD of Casing:	5.500"

Calculated Data:

Lead Volume:	1308.2	ft ³
Lead Fill:	5,034'	
Tail Volume:	1025.6	ft ³
Tail Fill:	3,946'	

Cement Data:

Lead Yield:	2.31	ft ³ /sk
Tail Yield:	1.42	ft ³ /sk
% Excess:	50%	

Calculated # of Sacks:

# SK's Lead:	570
# SK's Tail:	730

Aurora Federal 4-21D-7-20 Proposed Cementing Program

<u>Job Recommendation</u>	<u>Surface Casing</u>
Lead Cement - (1500' - 0')	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 1,500'
	Volume: 146.41 bbl
	Proposed Sacks: 280 sks
Tail Cement - (TD - 1500')	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft ³ /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 1,500'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	Proposed Sacks: 210 sks

<u>Job Recommendation</u>	<u>Production Casing</u>
Lead Cement - (6534' - 1500')	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft ³ /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 1,500'
	Calculated Fill: 5,034'
	Volume: 232.99 bbl
	Proposed Sacks: 570 sks
Tail Cement - (10480' - 6534')	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft ³ /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 6,534'
	Calculated Fill: 3,946'
	Volume: 182.65 bbl
	Proposed Sacks: 730 sks

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 06 2012

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU75093
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BILL BARRETT CORPORATION Contact: VENESSA LANGMACHER E-Mail: viangmacher@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No. AURORA (DEEP) UTU
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		8. Lease Name and Well No. AURORA FEDERAL 4-21D-7-20
3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420		9. API Well No. 43-047-52033
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWNW 267FNL 223FWL 40.202775 N Lat, 109.683183 W Lon At proposed prod. zone NWNW 660FNL 660FWL 40.201711 N Lat, 109.681600 W Lon		10. Field and Pool, or Exploratory UNDESIGNATED
14. Distance in miles and direction from nearest town or post office* 22.2 MILES SOUTHWEST OF VERNAL, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 21 T7S R20E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660' (BOTTOM HOLE)	16. No. of Acres in Lease 2032.00	12. County or Parish UINTAH
17. Spacing Unit dedicated to this well 40.00	13. State UT	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 769'	19. Proposed Depth 10480 MD 10409 TVD	20. BLM/BIA Bond No. on file WYB000040
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4811 GL	22. Approximate date work will start 07/01/2012	23. Estimated duration 60 DAYS (D&C)

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312-8172	Date 05/03/2012
Title SENIOR PERMIT ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date OCT 23 2012
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #137241 verified by the BLM Well Information System
For BILL BARRETT CORPORATION, sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 05/10/2012 ()

RECEIVED

NOV 06 2012

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

12UBR0575AE

NO NOS-

Posted 5/11/12



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Bill Barrett Corporation
Well No: Aurora Federal 4-21D-7-20
API No: 43-047-52633

Location: NWNW, Sec. 21, T7S, R20E
Lease No: UTU-75093
Agreement: Aurora (Deep)

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Any deviation of submitted APD's, which includes BBCs surface use plan, and ROW applications the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will ensure its compliance.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COAs, and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- Noxious weeds will be treated, monitored, and controlled along both the access road, pipeline route, and on the well pad itself. This includes the Russian Olive and Tamarisk trees identified during the onsite inspection.
- Insure topsoil stability on location and use topsoil for interim reclamation as soon as possible to maintain viability of the topsoil resource. If stored for a longer period of time then topsoil piles should be maintained to increase viability until the topsoil resource can be used for reclamation purposes only.
- All above ground production facilities will be painted Covert Green on all locations to help blend in with the surrounding habitat, unless otherwise directed by the BLM.
- The operator must conduct operations to minimize adverse effects to surface and subsurface resources, prevent unnecessary surface disturbance, and conform to currently available technologies and practices.
- For well 2-19D-7-20, the cottonwood trees along the fence line, between the property line and the well will be left alone per the surface owners request.

- A 20 ml reserve pit liner has been requested on both locations to minimize the potential impact to the shallow ground water in the area.
- A cattle guard will be installed as proposed where the access road into the 2-19-7-20 location meets with the county road.
- On the proposed 4-21D-7-20 location, the well entire well pad will be fenced as per the surface owners request. This fence will be maintained by Bill Barrett Corp. for the life of the well.
- A gate will be installed on the 4-21D-7-20 location on the existing fence line between the two pastures as per the private land owners request.
- Site reclamation would be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Road areas not being used and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact the BLM for seed mixes that work in the area. Seeds should be planted in August and prior to ground freeze. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

1. Cement for long-string shall be circulated 200 ft. above surface casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location ($\frac{1}{4}$ Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75093
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: Aurora Federal 4-21D-7-20
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0267 FNL 0223 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 21 Township: 07.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047526330000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/25/2013	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 This well was spud on 6/25/2013 at 12:00 pm by Triple A Drilling; Rig #TA 4037, Type Soilmec SR/30. Continuous drilling is planned to commence on 7/15/2013.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

FOR RECORD ONLY

June 26, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 6/25/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75093
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0267 FNL 0223 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 21 Township: 07.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047526330000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/30/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Well Spud in May 2013. Drilling to resume in July 2013.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 July 11, 2013

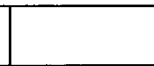
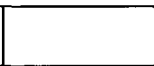
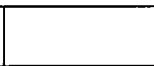
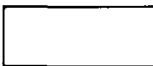
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 7/9/2013	

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NW NW 5-21 T07S R20E

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More

COMPOSE

SURFACE CSG & CEMENT NOTICE

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Important

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Cabinet

Follow up

Misc

Notes

Priority

More

Capstar328 Rig

Jul 8 (2 days ago)

To Brady, rne, dennis@gram richardpowell, Tracey, ut, ut, prepud

PLEASE FIND ATTACHED THE NOTICE TO RUN SURFACE CASING AND CEMENT THE AURORA FED 4-21D-7-20, API#43-047-526330000 WELL FOR BILL BARRETT CORP. USING THE CAPSTAR #328 RIG ON TUESDAY, JULY 9, 2013 AT APPROX 6:30 AM. IF YOU HAVE ANY QUESTIONS OR CONCERNS PLEASE CALL.

THANK YOU,

JODY SOUTH

BILL BARRETT CORP.

CAPSTAR #328

281-846-7727

RECEIVED

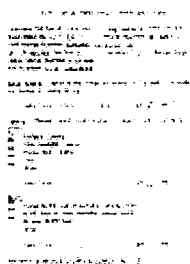
JUL 18 2013

DIV. OF OIL, GAS & MINING



Search people...

Don Staley
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SURF_CS Notice 001.jpg

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BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# CAPSTAR 328
Submitted By JODY SOUTH Phone Number 281-846-7727
Well Name/Number AURORA FED 4-21D-7-20
Qtr/Qtr NW/NW Section 21 Township 7S Range 20E
Lease Serial Number UTU75093
API Number 43-047-526330000

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 07/09/2013 6:30 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time _____ AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

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JUL 08 2013

DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Remarks SURFACE CASING & CEMENT NOTICE

Carol Daniels <caroldaniels@utah.gov>

NWNW S-21 T07S R.30E

B.O.P. TEST NOTICE

1 message

Capstar328 Rig <capstar328@billbarrettcorp.com>

Tue, Jul 9, 2013 at 4:21 PM

To: Brady Riley <briley@billbarrettcorp.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "richardpowell@utah.gov" <richardpowell@utah.gov>, Tracey Fallang <tfallang@billbarrettcorp.com>, "ut_vn_opreport@blm.gov" <ut_vn_opreport@blm.gov>

PLEASE FIND ATTACHED THE NOTICE TO TEST THE B.O.P. USING B&C QUICK TEST ON THE AURORA FED 4-21D-7-20, API# 43047526330000, WELL FOR BILL BARRETT CORP, ON THE CAPSTAR 328 RIG. THE TEST WILL BE CONDUTED ON WEDNESDAY 7/10/2013 AT APPROX. 10:00PM. IF YOU HAVE ANY QUESTIONS OR CONCERNS PLEASE CALL.

THANK YOU,

JODY SOUTH

BILL BARRETT CORP.

CAPSTAR #328

281-846-7727

RECEIVED

JUL 10 2013

DIV. OF OIL, GAS & MINING

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323K

BOP_NOT 001.jpg
323K



NW/NE S-21 T 07S R 20 E

PRODUCTION CSG & CEMENT

Capstar328 Rig <capstar328@billbarrettcorp.com>

Thu, Jul 18, 2013 at 2:53 PM

To: Carol Daniels <caroldaniels@utah.gov>, Richard Powell <richardpowell@utah.gov>, Dennis Ingram <dennisingram@utah.gov>, BLM <ut_vn_opreport@blm.gov>

Cc: Tracey Fallang <tfallang@billbarrettcorp.com>, Brady Riley <briley@billbarrettcorp.com>

GOOD AFTERNOON,

I WOULD LIKE TO INFORM EVERYONE OF OUR INTENT TO RUN & CEMENT 5 1/2 PRODUCTION CASING ON THE AURORA 4-21D-7-20 API # 43-047-52633 WITH CAPSTAR'S 328 FOR THE BILL BARRETT CORP. APPROX 15:00HRS 7/19/13. PLEASE CALL WITH ANY QUESTIONS OR CONCERNS.

THANKS

JARED

281-846-7727

THIS MESSAGE AND ANY CONTENTS ARE UNCLASSIFIED AND PUBLIC RELEASE. IT IS THE PROPERTY OF THE STATE OF UTAH AND IS LOANED TO YOU. IT AND ITS CONTENTS ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE STATE OF UTAH.

CSG & CEMENT NOTIFICATION.jpg
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JUL 18 2013

UTAH STATE MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75093
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: Aurora Federal 4-21D-7-20
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0267 FNL 0223 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 21 Township: 07.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047526330000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/31/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Attached is the July 2013 Drilling Activity for this well.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 August 06, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 8/5/2013	

**4-21D-7-20 Aurora 7/7/2013 14:30 - 7/8/2013 06:00**

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
14:30	3.50	18:00	1	RIGUP & TEARDOWN	MOVE RIG
18:00	3.50	21:30	1	RIGUP & TEARDOWN	SET IN SUB, RIG UP
21:30	1.50	23:00	14	NIPPLE UP B.O.P	NIPPLE UP CONDUCTOR AND RIG UP FLOW LINE
23:00	3.50	02:30	21	OPEN	BUILD NEW SHAKER SLIDES, BUILD AND ROUTE ALL NEW PLUMBING TO PITS
02:30	1.50	04:00	14	NIPPLE UP B.O.P	SET UP RACKS, STRAP BHA
04:00	2.00	06:00	21	OPEN	WAIT ON ZECO TO GET DE-WATERING PARTS

4-21D-7-20 Aurora 7/8/2013 06:00 - 7/9/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	21	OPEN	WAIT ON ZECO TO RIG UP DE-WATERING
13:00	1.00	14:00	20	DIRECTIONAL WORK	TIH W/DIRECTIONAL TOOLS
14:00	16.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/80' - T/1470' - 1390' @ 86.9'/HR.

4-21D-7-20 Aurora 7/9/2013 06:00 - 7/10/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	DRILL ACTUAL F/1470' - T/2032' - 562' @ 59.2'/HR. SURFACE TD
15:30	1.00	16:30	5	COND MUD & CIRC	PUMP SWEEP, CIRCULATE
16:30	4.00	20:30	6	TRIPS	TOOH/LDDP
20:30	3.50	00:00	12	RUN CASING & CEMENT	RIG UP TO RUN CASING, CLEAN OUT FLOW LINE
00:00	6.00	06:00	12	RUN CASING & CEMENT	RUN 46 JTS. 2022' OF 9.625" J55 36# ST&C SURFACE CASING W/11 CENTRALIZERS

4-21D-7-20 Aurora 7/10/2013 06:00 - 7/11/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	12	RUN CASING & CEMENT	RUN 46 JTS. 2022' OF 9.625" J55 36# ST&C SURFACE CASING W/11 CENTRALIZERS
07:30	2.00	09:30	5	COND MUD & CIRC	PUMP 2 SWEEPS, CIRCULATE
09:30	4.00	13:30	12	RUN CASING & CEMENT	PRESSURE TEST 1500PSI, PUMP 20 BBL FRESH WATER, 40 BBL SUPER FLUSH 10 PPG, 20 BBL FRESH WATER, 300 SKS LEAD @ 11.0 PPG, 3.16 Y, 19.43 GPS, 240 SKS TAIL, 14.8 PPG, 1.37 Y, 6.62GPS, SHUT DOWN TO DROP PLUG, PUMP 153 BBLS DISPLACEMENT OF FRESH WATER, 77BBL CEMENT TO SURFACE, BUMP PLUG @ 500 PSI, FLOATS HELD.
13:30	3.00	16:30	13	WAIT ON CEMENT	WAIT ON CEMENT
16:30	5.00	21:30	21	OPEN	CUT OFF CASING, WELD ON WELLHEAD
21:30	3.50	01:00	14	NIPPLE UP B.O.P	NIPPLE UP B.O.P.
01:00	4.50	05:30	15	TEST B.O.P	TEST BLIND & PIPE RAMS, KELLY COCK, SAFETY VALVE, DART VALVE, KILL VALVE, CHECK VALVE INNER AND OUTER CHOKE VALVES TO 5000 PSI FOR 10 MIN. EACH TEST ANNULAR FOR 10 MIN. @ 2500 PSI AND TEST CASING FOR 30 MIN. @ 1500 PSI
05:30	0.50	06:00	6	TRIPS	LOAD PIPE RACK & STRAP BHA

4-21D-7-20 Aurora 7/11/2013 06:00 - 7/12/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	21	OPEN	INSTALL WEAR BUSHING
06:30	1.50	08:00	20	DIRECTIONAL WORK	MAKE UP BIT, MM, DIR. TOOLS, SCRIBE IN
08:00	1.50	09:30	6	TRIPS	TIH
09:30	1.50	11:00	8	REPAIR RIG	WORK ON SWIVEL PUMP

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
11:00	1.00	12:00	6	TRIPS	TIH, TAG @ 1940' DRILL STRING PLUGGED, ATTEMPT TO TOO
12:00	1.00	13:00	8	REPAIR RIG	CHANGE OUT BOOM PUMP
13:00	1.50	14:30	6	TRIPS	TOOH, FOUND PLUG DP @ 900'
14:30	1.00	15:30	6	TRIPS	TIH TO CEMENT
15:30	2.00	17:30	2	DRILL ACTUAL	DRILL FLOAT, CEMENT, & SHOE @ 2015'
17:30	0.50	18:00	15	TEST B.O.P	SPOT LCM PILL, RUN EMW TEST @ 182 PSI
18:00	0.50	18:30	6	TRIPS	TOOH FOR MM
18:30	1.50	20:00	8	REPAIR RIG	CHANGE OUT TOP DRIVE MOTORS
20:00	3.00	23:00	6	TRIPS	TOOH
23:00	3.00	02:00	6	TRIPS	MAKE UP BIT NEW MM AND TIH
02:00	4.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/2052' - T/2419' - 367' @91.8'/HR.

4-21D-7-20 Aurora 7/12/2013 06:00 - 7/13/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	2	DRILL ACTUAL	DRILL ACTUAL F/2419' - T/2645' - 225' @ 90.4'/HR.
08:30	0.50	09:00	8	REPAIR RIG	WORK ON PUMP #2
09:00	4.50	13:30	2	DRILL ACTUAL	DRILL ACTUAL F/2645' - T/3008' - 363' @ 80.66'/HR.
13:30	0.50	14:00	7	LUBRICATE RIG	RIG SERVICE
14:00	12.50	02:30	2	DRILL ACTUAL	DRILL ACTUAL F/3008' - T/4004' - 996' @ 80'/HR.
02:30	0.50	03:00	5	COND MUD & CIRC	PUMP 40 BBL HIGH VIS SWEEP, CIRCULATE OUT
03:00	3.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/4004' - T/4184' - 180' @ 60'/HR.

4-21D-7-20 Aurora 7/13/2013 06:00 - 7/14/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Steerable Drill 7 7/8" Hole f/ 4184' To 4320' (136')
08:00	2.00	10:00	8	REPAIR RIG	Change Out Swivel Packing On Top Drive
10:00	0.50	10:30	7	LUBRICATE RIG	Service Rig
10:30	11.00	21:30	2	DRILL ACTUAL	Steerable Drill 7-7/8" Prod Hole F/ 4320' to 5000' (680')
21:30	0.50	22:00	5	COND MUD & CIRC	Sweep & Circ Out
22:00	8.00	06:00	2	DRILL ACTUAL	Steerable Drill f/ 5000' to 5497' (497')

4-21D-7-20 Aurora 7/14/2013 06:00 - 7/15/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	DRILL F/ 5497 T/ 6041 - 544' @ 47' HR - WT ON BIT 20-22 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 250-350PSI - SPP - 2050
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	0.50	18:30	5	COND MUD & CIRC	PUMP 40BBLs HIGH VIS & LCM SWEEP TO CLEAN HOLE - CIRCULATE SHAKERS CLEAN - HOLE APPEARS TO BE CLEANING WELL WITH CURRENT MUD & PUMP RATE
18:30	11.50	06:00	2	DRILL ACTUAL	DRILL F/ 6041 T/ 6775 - 734' @ 63' HR - WT ON BIT 20-22 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 250-350PSI - SPP - 2150 - SLIDE 0'

4-21D-7-20 Aurora 7/15/2013 06:00 - 7/16/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	DRILL F/ 6775 T/ 7185 - 410' @ 35' HR - WT ON BIT 20-22 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 150-250PSI - SPP - 2150 - SLIDE 0'
17:30	0.50	18:00	5	COND MUD & CIRC	RIG SERVICE
18:00	2.50	20:30	2	DRILL ACTUAL	DRILL F/ 7185 T/ 7308 - 123' @ 35' HR - WT ON BIT 20-22 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 150-250PSI - SPP - 2100 - SLIDE 0'

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
20:30	3.50	00:00	6	TRIPS	HIGH TORQUE STALLING T.D. WHILE DRILLING & BACKREAMING - WIPER TRIP F/ 7308 T/ 6873 - PUMP & BACKREAM ALL JTS OUT OF HOLE TO CONDITION HOLE
00:00	6.00	06:00	2	DRILL ACTUAL	DRILL F/ 7308 T/ 7500 - 123' @ 35' HR - WT ON BIT 20-22 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 150-250PSI - SPP - 2100 - SLIDE 0'

4-21D-7-20 Aurora 7/16/2013 06:00 - 7/17/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	DRILL F/ 7500 T/ 7660 - 160' @ 14' HR - WT ON BIT 22-25 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 100-250PSI - SPP - 2200 - SLIDE 0'
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	10.00	04:00	2	DRILL ACTUAL	DRILL F/ 7660 T/ 7897 - 237' @ 24' HR - WT ON BIT 25-27 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 100-250PSI - SPP - 2200 - SLIDE 0'
04:00	2.00	06:00	5	COND MUD & CIRC	PUMP LCM SWEEP - CIRCULATE & BUILD VOLUME

4-21D-7-20 Aurora 7/17/2013 06:00 - 7/18/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	DRILL F/ 7897 T/ 8065
14:00	1.00	15:00	5	COND MUD & CIRC	PUMP SWEEP CLEAN HOLE - CIRCULATE OUT - BUILD SLUG
15:00	8.00	23:00	6	TRIPS	T.O.O.H F/ 8065 T/ 6700 BACKREAMING WITH PUMPS ON - T.O.O.H. F/6700 T/ DIRECTIONAL TOOLS - FILL HOLE CONTINUOUSLY WITH TRIP TANK 65BBLs
23:00	1.00	00:00	20	DIRECTIONAL WORK	L/D DIRECTIONAL TOOLS - DRAIN M/M - BREAK BIT
00:00	6.00	06:00	6	TRIPS	M/U BIT & BIT SUB - T.I.H. FILLING AND CONDITIONING MUD @ SHOE, 4000' 6000'

4-21D-7-20 Aurora 7/18/2013 06:00 - 7/19/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	CONT T.I.H. - WASH & REAM F/ 6505 T/ 8065
09:00	2.00	11:00	5	COND MUD & CIRC	PUMP HIGH VIS LCM SWEEP & CIRCULATE SHAKERS CLEAN - CONDITION MUD FOR LOGS - 35VIS - 17YP
11:00	3.00	14:00	6	TRIPS	BACKREAM T/ 7834 - TIGHT HOLE (PACKING OFF) STALLING T.D. & PRESSURING UP
14:00	1.00	15:00	3	REAMING	WASH & REAM BACK TO BOTTOM
15:00	6.50	21:30	6	TRIPS	BACKREAM T/ 7500' - ABLE TO PULL PIPE FREELY F/7500 T/ 0
21:30	5.00	02:30	11	WIRELINE LOGS	RIG UP LOGGING EQUIPMENT & ATTEMPT TO LOG TAGGED @ 2230' - WORK SPOT W/ NO PROGRESS - RIG DOWN LOGGING EQUIPMENT
02:30	2.00	04:30	21	OPEN	PREPARE TO MAKE WIPER TRIP - RESET RACK'S & LOAD BHA - RIG TOPDRIVE BACK UP FOR WIPER TRIP -
04:30	1.50	06:00	6	TRIPS	T.I.H. T/ CASING SHOE - FILL PIPE - INSTALL ROT. RUBBER

4-21D-7-20 Aurora 7/19/2013 06:00 - 7/20/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	6	TRIPS	T.I.H. T/ 6635
11:30	2.50	14:00	3	REAMING	WASH & REAM F/ 6635 T/ 8065 - WASH JTS DOWN W/O ROTARY & ONLY JTS THAT SLACKED OF 20K OR MORE
14:00	2.50	16:30	5	COND MUD & CIRC	CIRCULATE TELL SHAKERS CLEAN
16:30	8.00	00:30	6	TRIPS	T.O.O.H. F/ 8065 T/ 0 - BACKREAM OUT OF HOLE F/ 8065 T/ 7370 - STARTING WITH BOTH PUMPS & FULL RPM - ELIMINATING STROKES & RPM UNTIL PIPE WAS PULLING FREE
00:30	0.50	01:00	21	OPEN	PULL WEAR BUSHING
01:00	0.50	01:30	7	LUBRICATE RIG	RIG SERVICE

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
01:30	1.50	03:00	21	OPEN	R/D TOPDRIVE TO INSTALL CASING RUNNING EQUIPMENT
03:00	3.00	06:00	12	RUN CASING & CEMENT	M/U FLOAT EQUIPMENT & TEST - RUN 5 1/2 CSG TO SHOE AND FILL

4-21D-7-20 Aurora 7/20/2013 06:00 - 7/21/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	12	RUN CASING & CEMENT	CONT. TO RUN A TOTAL OF 184JTS #17 P-110 LT&C - WASH LAST 5 JTS TO BOTTOM 2ND TO LAST JT 1 1/2 HOURS TO GET DOWN
14:00	1.00	15:00	5	COND MUD & CIRC	R/U HALIBURTON - CONDITION & CIRCULATE MUD PER CEMENTING GUIDELINE'S -
15:00	5.00	20:00	12	RUN CASING & CEMENT	TEST LINES TO 5000PSI - PUMP 10BBLS WATER SPACER - 40BBLS SUPERFLUSH 101 - 10BBLS WATER SPACER - PUMP 103.2BBLS (580SKS) 11.0PPG LEAD CEMENT W/ 2.32 YIELD W/ 10.67GAL SK MIX WATER - PUMP 97.95BBLS (550SKS) 13.56PPG TAIL CEMENT W/ 1.42 YIELD W/ 6.85 GAL SK MIX WATER - DROP PLUG & PUMP 185BBLS CLAWEB & ALDACIDE DISPLACEMENT - LAND PLUG 1150PSI, 0 BBLs OF CEMENT TO SURFACE - 1 BBLs BACK TO TRUCK - FLOATS HELD.
20:00	1.00	21:00	14	NIPPLE DOWN B.O.P	REMOVE BOLTS CONNECTING B.O.P. TO WELLHEAD
21:00	1.00	22:00	12	RUN CASING & CEMENT	SET SLIPS 30K OVER STRING WT & CUT CSG
22:00	8.00	06:00	1	RIGUP & TEARDOWN	RIG DOWN WHILE CLEANING MUD TANKS

4-21D-7-20 Aurora 7/21/2013 06:00 - 7/22/2013 10:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	1	RIGUP & TEARDOWN	CLEAN TANKS - RIG DOWN MOVE LOADS

4-21D-7-20 Aurora 7/23/2013 06:00 - 7/24/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 11" NIGHT CAP. MAKE FINAL CUT AND DRESS 5-1/2". NU 7" 5K TBG HEAD. PRES TEST. VOID AND SEALS. NU 7" NIGHT CAP.

4-21D-7-20 Aurora 7/26/2013 06:00 - 7/27/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured With NightCap. HES Logging Crew Arrive On Location, Hold Safety Meeting, Prep Logging Tool.
06:00	6.00	12:00	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 7,901', Drilling Report Shows FC At 7,973', 64' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 7,901', Run Repeat Section From 7,901' - 7,691', Log Up Hole. Showed Good Bond From TD To 3,500', Spotty From 3,500 To 2,660'. TOC 2,660'. Found Short Joint At 6,956 - 6,978' And 6,074 - 6,096'. RBT Ran To Surface. RMTE To 3,000'. Ran With Pressure. Pooh, RD Equipment, MOL.
12:00	18.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75093
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: Aurora Federal 4-21D-7-20
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0267 FNL 0223 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 21 Township: 07.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047526330000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/12/2013	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME		
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well had first production on 8/12/13

**Accepted by the
Utah Division of
Oil, Gas and Mining**

FOR RECORD ONLY

August 13, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 8/13/2013	

RECEIVED: Sep. 11, 2013

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(*Sold, used for fuel, vented, etc.*)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER MAHOGANY JOHNSON DOUGLAS CREEK BLACK SHALE CASTLE PEAK UTELAND BUTTE TD	3921 5089 6265 6997 7081 7515 8089

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. Conductor cemented with grout. Attached is Treatment data, Logs and End of Well Report. First Gas sales were on 8/22/2013; first oil sales 9/2/2013.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #219811 Verified by the BLM Well Information System.
For BILL BARRETT CORP, sent to the Vernal**

Name (*please print*) CHRISTINA HIRTLERTitle ADMINISTRATIVE ASSISTANT

Signature _____ (Electronic Submission)

Date 09/11/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

RECEIVED: Sep. 11, 2013

Aurora 4-21D-7-20 Report Continued*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)				
AMOUNT AND TYPE OF MATERIAL				
<u>Stage</u>	<u>Bbls Slurry</u>	<u>lbs Common White 100 Mesh Sand</u>	<u>lbs 20/40 Premium White Sand</u>	<u>gal 15% HCl Acid</u>
1	2647		152200	3900
2	2622		150100	3900
3	2631		150300	3900
4	2620		150000	3900
5	2620		109300	3900
6	2435		110800	3900
7	1769	5400	60110	3900

*Depth intervals for frac information same as perforation record intervals.



Payzone Directional

End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well 4-21D-7-20
Project:	Duchesne County, UT	TVD Reference:	4-21D-7-20 @ 4823.0ft (Original Well Elev)
Site:	SECTION 21 T7S, R20E	MD Reference:	4-21D-7-20 @ 4823.0ft (Original Well Elev)
Well:	4-21D-7-20	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.21 Single User Db

Project	Duchesne County, UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Southern Zone		

Site	SECTION 21 T7S, R20E		
Site Position:		Northing:	3,394,097.66 m
From:	Lat/Long	Easting:	654,806.73 m
Position Uncertainty:	0.0 ft	Slot Radius:	in
		Latitude:	40° 12' 9.990 N
		Longitude:	109° 40' 59.460 W
		Grid Convergence:	1.11 °

Well		4-21D-7-20, SHL LAT: 40 12 09.99 LONG: -109 40 59.46				
Well Position	+N/-S	0.0 ft	Northing:	3,394,097.65 m	Latitude:	40° 12' 9.990 N
	+E/-W	0.0 ft	Easting:	654,806.73 m	Longitude:	109° 40' 59.460 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	4,823.0 ft	Ground Level:	4,810.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/26/2013	10.92	65.95	52,213

Design	Actual			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	132.31

Survey Program	Date	9/9/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
111.0	8,065.0	Survey #1 (Wellbore #1)		



Payzone Directional
End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well 4-21D-7-20
Project:	Duchesne County, UT	TVD Reference:	4-21D-7-20 @ 4823.0ft (Original Well Elev)
Site:	SECTION 21 T7S, R20E	MD Reference:	4-21D-7-20 @ 4823.0ft (Original Well Elev)
Well:	4-21D-7-20	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.21 Single User Db

Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
111.0	0.44	40.02	111.0	0.0	0.3	0.3	0.40	0.40	0.00	
202.0	0.44	40.02	202.0	0.0	0.9	0.7	0.00	0.00	0.00	
293.0	0.88	330.50	293.0	-0.7	1.7	0.6	0.92	0.48	-76.40	
384.0	0.13	239.04	384.0	-1.4	2.3	0.2	0.98	-0.82	-100.51	
476.0	0.48	313.80	476.0	-1.8	2.5	-0.2	0.50	0.38	81.26	
568.0	0.66	4.70	568.0	-2.5	3.3	-0.4	0.56	0.20	55.33	
629.0	0.31	293.00	629.0	-2.9	3.7	-0.6	1.04	-0.57	-117.54	
720.0	0.04	178.00	720.0	-3.1	3.8	-0.8	0.36	-0.30	-126.37	
810.0	0.04	232.50	810.0	-3.1	3.7	-0.8	0.04	0.00	60.56	
901.0	0.57	29.10	901.0	-3.2	4.1	-0.6	0.67	0.58	172.09	
990.0	0.40	301.50	990.0	-3.6	4.7	-0.7	0.77	-0.19	-98.43	
1,081.0	0.57	266.00	1,081.0	-4.2	4.8	-1.4	0.37	0.19	-39.01	
1,171.0	0.31	209.20	1,171.0	-4.5	4.5	-1.9	0.53	-0.29	-63.11	
1,262.0	0.44	39.00	1,262.0	-4.5	4.6	-1.8	0.82	0.14	-187.03	
1,352.0	0.48	304.60	1,352.0	-4.9	5.1	-1.9	0.75	0.04	-104.89	
1,443.0	0.18	186.76	1,443.0	-5.2	5.2	-2.3	0.64	-0.33	-129.49	
1,533.0	0.62	102.28	1,533.0	-4.6	4.9	-1.8	0.70	0.49	-93.87	
1,624.0	0.53	122.37	1,624.0	-3.8	4.6	-1.0	0.24	-0.10	22.08	
1,714.0	0.70	63.04	1,714.0	-3.2	4.6	-0.1	0.70	0.19	-65.92	
1,805.0	0.13	5.38	1,805.0	-3.1	5.0	0.4	0.70	-0.63	-63.36	
1,895.0	0.35	352.24	1,895.0	-3.3	5.3	0.3	0.25	0.24	-14.60	
1,941.0	0.09	238.86	1,941.0	-3.5	5.5	0.3	0.86	-0.57	-246.48	
2,050.0	0.30	351.40	2,050.0	-3.7	5.7	0.2	0.32	0.19	103.25	
2,140.0	1.32	124.40	2,139.9	-2.9	5.3	1.0	1.71	1.13	147.78	
2,231.0	2.20	137.50	2,230.9	-0.1	3.5	3.0	1.06	0.97	14.40	
2,321.0	3.21	125.40	2,320.8	4.1	0.7	6.3	1.28	1.12	-13.44	



Payzone Directional
End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well 4-21D-7-20
Project:	Duchesne County, UT	TVD Reference:	4-21D-7-20 @ 4823.0ft (Original Well Elev)
Site:	SECTION 21 T7S, R20E	MD Reference:	4-21D-7-20 @ 4823.0ft (Original Well Elev)
Well:	4-21D-7-20	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.21 Single User Db

Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	
2,411.0	4.48	132.40	2,410.6	10.2	-3.1	10.9	1.50	1.41	7.78	
2,502.0	5.71	131.80	2,501.2	18.2	-8.5	16.9	1.35	1.35	-0.66	
2,592.0	7.12	130.08	2,590.7	28.3	-15.1	24.5	1.58	1.57	-1.91	
2,683.0	8.09	129.69	2,680.9	40.3	-22.8	33.8	1.07	1.07	-0.43	
2,774.0	9.32	133.99	2,770.8	54.1	-32.0	44.0	1.53	1.35	4.73	
2,864.0	9.33	133.38	2,859.6	68.7	-42.1	54.5	0.11	0.01	-0.68	
2,955.0	10.68	132.98	2,949.2	84.5	-52.9	66.1	1.49	1.48	-0.44	
3,045.0	10.68	131.97	3,037.7	101.1	-64.2	78.4	0.21	0.00	-1.12	
3,136.0	10.50	130.78	3,127.1	117.9	-75.2	90.9	0.31	-0.20	-1.31	
3,227.0	9.90	130.80	3,216.7	134.0	-85.7	103.1	0.66	-0.66	0.02	
3,317.0	11.40	131.60	3,305.1	150.6	-96.7	115.6	1.67	1.67	0.89	
3,408.0	11.12	129.70	3,394.4	168.4	-108.3	129.1	0.51	-0.31	-2.09	
3,498.0	10.80	128.60	3,482.8	185.5	-119.1	142.4	0.42	-0.36	-1.22	
3,589.0	11.30	128.10	3,572.1	202.9	-129.9	156.1	0.56	0.55	-0.55	
3,679.0	9.90	125.00	3,660.5	219.3	-139.8	169.3	1.68	-1.56	-3.44	
3,770.0	9.60	128.90	3,750.2	234.7	-149.0	181.6	0.80	-0.33	4.29	
3,860.0	9.20	127.40	3,839.0	249.3	-158.1	193.2	0.52	-0.44	-1.67	
3,951.0	9.80	126.80	3,928.8	264.3	-167.2	205.2	0.67	0.66	-0.66	
4,041.0	10.10	128.00	4,017.4	279.8	-176.6	217.5	0.41	0.33	1.33	
4,131.0	10.50	128.70	4,106.0	295.8	-186.6	230.1	0.47	0.44	0.78	
4,222.0	9.18	124.19	4,195.6	311.3	-195.9	242.6	1.68	-1.45	-4.96	
4,312.0	9.18	127.80	4,284.5	325.5	-204.3	254.2	0.64	0.00	4.01	
4,403.0	10.90	127.18	4,374.1	341.3	-214.0	266.8	1.89	1.89	-0.68	
4,493.0	10.90	123.90	4,462.4	358.2	-223.9	280.7	0.69	0.00	-3.64	
4,584.0	10.50	121.07	4,551.9	374.9	-232.9	294.9	0.73	-0.44	-3.11	
4,674.0	10.20	118.88	4,640.4	390.7	-241.0	308.9	0.55	-0.33	-2.43	
4,765.0	9.20	122.61	4,730.1	405.7	-248.8	322.1	1.30	-1.10	4.10	



Payzone Directional
End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well 4-21D-7-20
Project:	Duchesne County, UT	TVD Reference:	4-21D-7-20 @ 4823.0ft (Original Well Elev)
Site:	SECTION 21 T7S, R20E	MD Reference:	4-21D-7-20 @ 4823.0ft (Original Well Elev)
Well:	4-21D-7-20	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.21 Single User Db

Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	
4,856.0	9.40	124.30	4,819.9	420.2	-256.9	334.4	0.37	0.22	1.86	
4,946.0	10.40	127.40	4,908.6	435.6	-266.0	346.9	1.26	1.11	3.44	
5,037.0	10.20	124.50	4,998.1	451.8	-275.6	360.1	0.61	-0.22	-3.19	
5,127.0	9.32	125.00	5,086.8	466.9	-284.3	372.6	0.98	-0.98	0.56	
5,218.0	9.50	129.70	5,176.6	481.7	-293.3	384.4	0.87	0.20	5.16	
5,309.0	7.78	127.90	5,266.5	495.3	-301.9	395.0	1.91	-1.89	-1.98	
5,400.0	7.40	123.50	5,356.7	507.3	-308.9	404.8	0.76	-0.42	-4.84	
5,490.0	6.99	134.87	5,446.0	518.5	-315.9	413.5	1.64	-0.46	12.63	
5,580.0	6.42	131.97	5,535.4	529.0	-323.2	421.1	0.74	-0.63	-3.22	
5,671.0	6.40	134.87	5,625.8	539.1	-330.1	428.5	0.36	-0.02	3.19	
5,761.0	5.41	135.57	5,715.4	548.4	-336.7	435.0	1.10	-1.10	0.78	
5,852.0	4.39	135.97	5,806.0	556.1	-342.3	440.5	1.12	-1.12	0.44	
5,942.0	3.38	140.10	5,895.8	562.2	-346.8	444.6	1.16	-1.12	4.59	
6,033.0	2.90	145.30	5,986.7	567.1	-350.7	447.6	0.61	-0.53	5.71	
6,124.0	2.50	143.40	6,077.6	571.3	-354.2	450.1	0.45	-0.44	-2.09	
6,124.5	2.50	143.47	6,078.1	571.3	-354.2	450.1	0.67	-0.29	13.78	
4-21D-7-20 TGT										
6,214.0	2.30	157.00	6,167.5	574.9	-357.5	452.0	0.67	-0.22	15.12	
6,305.0	2.40	152.30	6,258.4	578.3	-360.8	453.6	0.24	0.11	-5.16	
6,395.0	2.20	148.70	6,348.4	581.7	-364.0	455.3	0.27	-0.22	-4.00	
6,487.0	2.29	148.90	6,440.3	585.2	-367.1	457.2	0.10	0.10	0.22	
6,577.0	2.50	162.80	6,530.2	588.6	-370.5	458.7	0.68	0.23	15.44	
6,667.0	2.40	157.30	6,620.1	592.0	-374.1	460.0	0.28	-0.11	-6.11	
6,758.0	2.02	170.07	6,711.1	595.0	-377.4	461.0	0.68	-0.42	14.03	
6,848.0	2.29	192.18	6,801.0	597.2	-380.8	460.9	0.96	0.30	24.57	
6,938.0	2.11	188.79	6,890.9	599.0	-384.1	460.3	0.25	-0.20	-3.77	
7,028.0	1.89	183.39	6,980.9	600.8	-387.3	459.9	0.32	-0.24	-6.00	



Payzone Directional
End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well 4-21D-7-20
Project:	Duchesne County, UT	TVD Reference:	4-21D-7-20 @ 4823.0ft (Original Well Elev)
Site:	SECTION 21 T7S, R20E	MD Reference:	4-21D-7-20 @ 4823.0ft (Original Well Elev)
Well:	4-21D-7-20	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003.21 Single User Db

Survey										
MD (ft)	Inc (°)	Azi (azimuth) (°)		TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)
7,119.0	1.71	180.09		7,071.8	602.7	-390.1	459.9	0.23	-0.20	-3.63
7,210.0	1.58	180.00		7,162.8	604.4	-392.7	459.9	0.14	-0.14	-0.10
7,300.0	1.70	183.60		7,252.8	606.1	-395.3	459.8	0.18	0.13	4.00
7,391.0	1.89	186.00		7,343.7	607.8	-398.1	459.5	0.22	0.21	2.64
7,481.0	1.71	178.60		7,433.7	609.6	-401.0	459.4	0.33	-0.20	-8.22
7,572.0	2.11	183.00		7,524.6	611.6	-404.0	459.3	0.47	0.44	4.84
7,662.0	2.50	192.50		7,614.5	613.7	-407.6	458.8	0.61	0.43	10.56
7,753.0	2.40	188.90		7,705.5	615.7	-411.4	458.1	0.20	-0.11	-3.96
7,844.0	1.40	176.20		7,796.4	617.6	-414.4	457.9	1.19	-1.10	-13.96
7,934.0	1.30	143.80		7,886.4	619.3	-416.3	458.6	0.84	-0.11	-36.00
8,000.8	1.46	148.16		7,953.2	620.9	-417.6	459.5	0.29	0.24	6.53
4-21D-7-20 TGT BHL										
8,012.0	1.49	148.80		7,964.4	621.2	-417.9	459.6	0.29	0.25	5.69
8,065.0	1.49	148.80		8,017.3	622.5	-419.1	460.3	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____

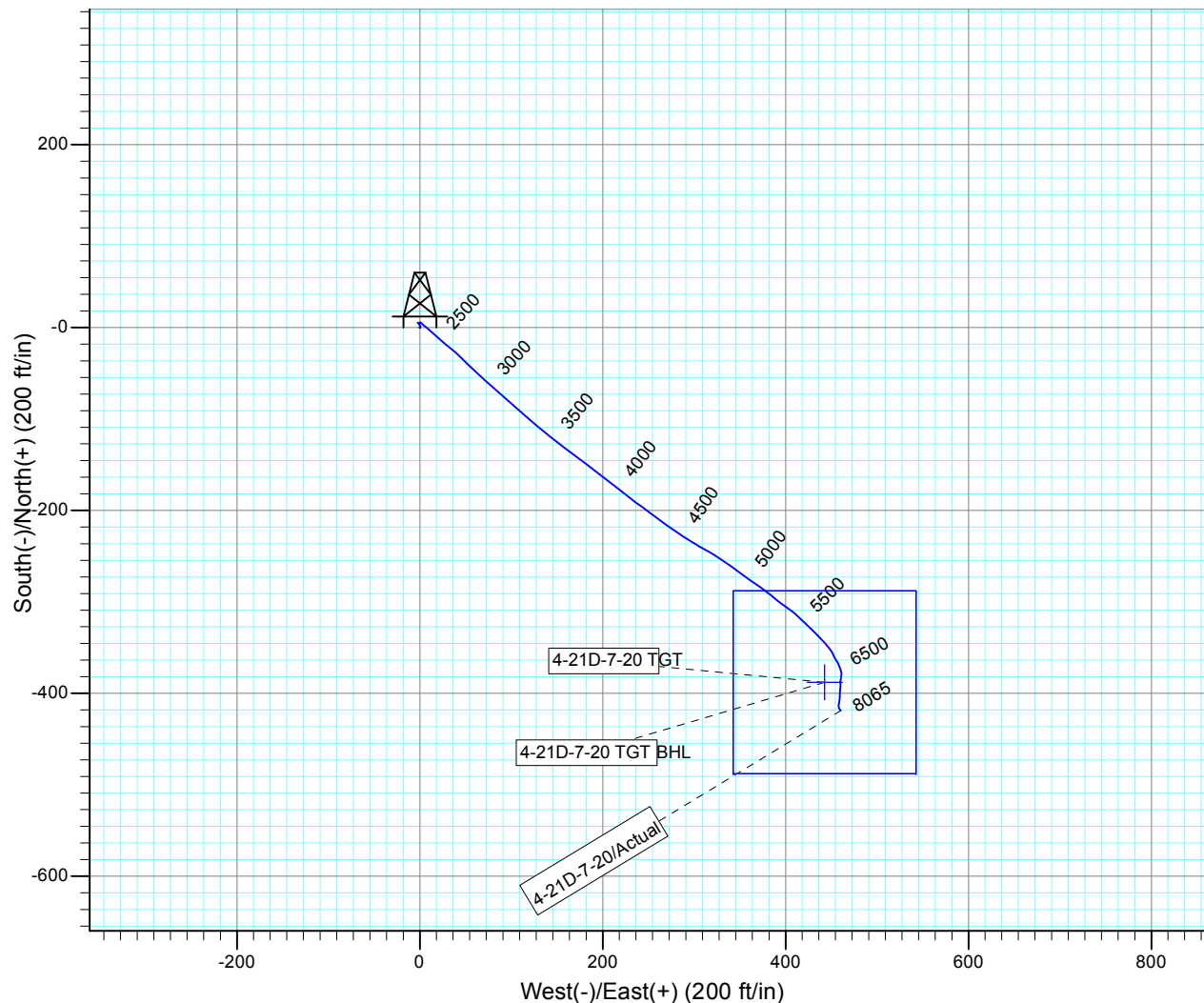
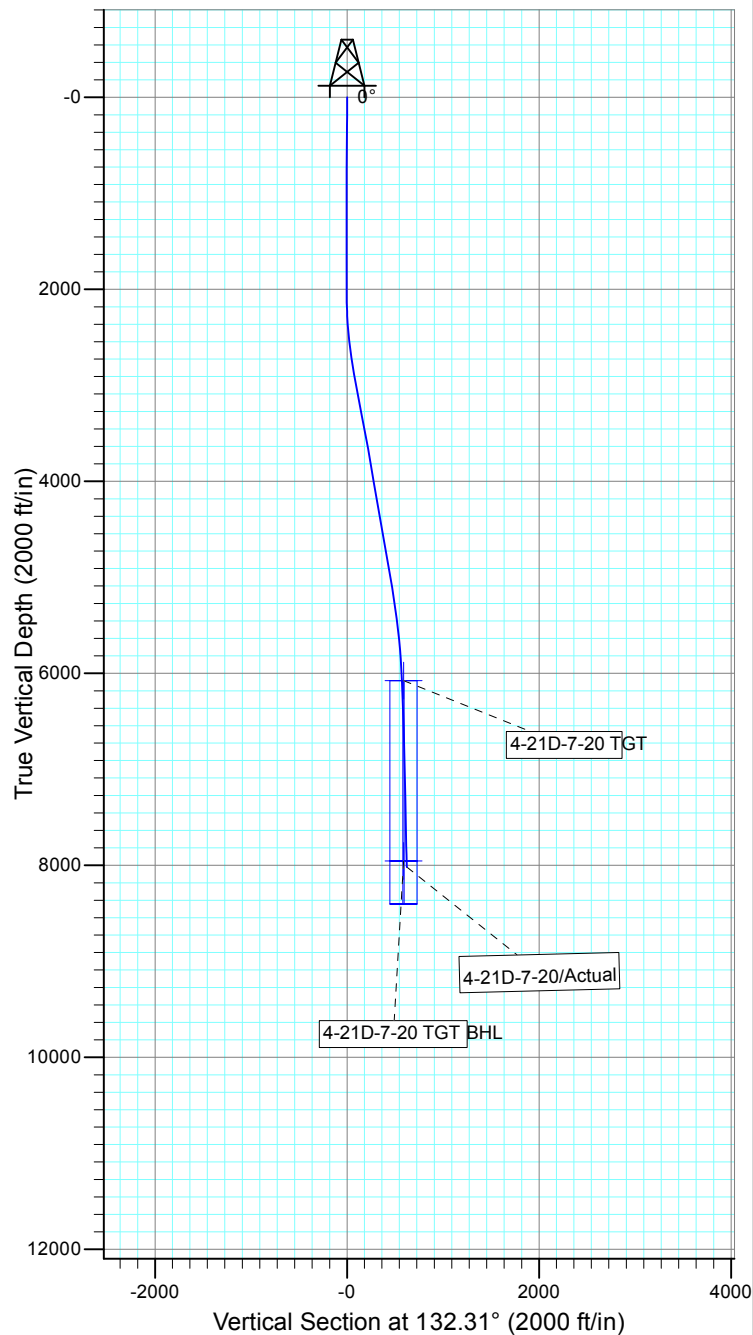


Project: Duchesne County, UT
Site: SECTION 21 T7S, R20E
Well: 4-21D-7-20
Wellbore: Wellbore # 1
Design: Actual



Azimuths to True North
Magnetic North: 10.92°

Magnetic Field
Strength: 52213.2snT
Dip Angle: 65.95°
Date: 6/26/2013
Model: IGRF2010



Design: Actual (4-21D-7-20/Wellbore #1)

Created By: Sarah Webb

Date: 12:02, July 18 2013

THIS SURVEY IS CORRECT TO THE BEST OF
MY KNOWLEDGE AND IS SUPPORTED

RECEIVED: Sep. 11, 2013 BY ACTUAL FIELD DATA

**4-21D-7-20 Aurora 7/7/2013 14:30 - 7/8/2013 06:00**

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
14:30	3.50	18:00	1	RIGUP & TEARDOWN	MOVE RIG
18:00	3.50	21:30	1	RIGUP & TEARDOWN	SET IN SUB, RIG UP
21:30	1.50	23:00	14	NIPPLE UP B.O.P	NIPPLE UP CONDUCTOR AND RIG UP FLOW LINE
23:00	3.50	02:30	21	OPEN	BUILD NEW SHAKER SLIDES, BUILD AND ROUTE ALL NEW PLUMBING TO PITS
02:30	1.50	04:00	14	NIPPLE UP B.O.P	SET UP RACKS, STRAP BHA
04:00	2.00	06:00	21	OPEN	WAIT ON ZECO TO GET DE-WATERING PARTS

4-21D-7-20 Aurora 7/8/2013 06:00 - 7/9/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	21	OPEN	WAIT ON ZECO TO RIG UP DE-WATERING
13:00	1.00	14:00	20	DIRECTIONAL WORK	TIH W/DIRECTIONAL TOOLS
14:00	16.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/80' - T/1470' - 1390' @ 86.9'/HR.

4-21D-7-20 Aurora 7/9/2013 06:00 - 7/10/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	DRILL ACTUAL F/1470' - T/2032' - 562' @ 59.2'/HR. SURFACE TD
15:30	1.00	16:30	5	COND MUD & CIRC	PUMP SWEEP, CIRCULATE
16:30	4.00	20:30	6	TRIPS	TOOH/LDDP
20:30	3.50	00:00	12	RUN CASING & CEMENT	RIG UP TO RUN CASING, CLEAN OUT FLOW LINE
00:00	6.00	06:00	12	RUN CASING & CEMENT	RUN 46 JTS. 2022' OF 9.625" J55 36# ST&C SURFACE CASING W/11 CENTRALIZERS

4-21D-7-20 Aurora 7/10/2013 06:00 - 7/11/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	12	RUN CASING & CEMENT	RUN 46 JTS. 2022' OF 9.625" J55 36# ST&C SURFACE CASING W/11 CENTRALIZERS
07:30	2.00	09:30	5	COND MUD & CIRC	PUMP 2 SWEEPS, CIRCULATE
09:30	4.00	13:30	12	RUN CASING & CEMENT	PRESSURE TEST 1500PSI, PUMP 20 BBL FRESH WATER, 40 BBL SUPER FLUSH 10 PPG, 20 BBL FRESH WATER, 300 SKS LEAD @ 11.0 PPG, 3.16 Y, 19.43 GPS, 240 SKS TAIL, 14.8 PPG, 1.37 Y, 6.62GPS, SHUT DOWN TO DROP PLUG, PUMP 153 BBLS DISPLACEMENT OF FRESH WATER, 77BBL CEMENT TO SURFACE, BUMP PLUG @ 500 PSI, FLOATS HELD.
13:30	3.00	16:30	13	WAIT ON CEMENT	WAIT ON CEMENT
16:30	5.00	21:30	21	OPEN	CUT OFF CASING, WELD ON WELLHEAD
21:30	3.50	01:00	14	NIPPLE UP B.O.P	NIPPLE UP B.O.P.
01:00	4.50	05:30	15	TEST B.O.P	TEST BLIND & PIPE RAMS, KELLY COCK, SAFETY VALVE, DART VALVE, KILL VALVE, CHECK VALVE INNER AND OUTER CHOKE VALVES TO 5000 PSI FOR 10 MIN. EACH TEST ANNULAR FOR 10 MIN. @ 2500 PSI AND TEST CASING FOR 30 MIN. @ 1500 PSI
05:30	0.50	06:00	6	TRIPS	LOAD PIPE RACK & STRAP BHA

4-21D-7-20 Aurora 7/11/2013 06:00 - 7/12/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	21	OPEN	INSTALL WEAR BUSHING
06:30	1.50	08:00	20	DIRECTIONAL WORK	MAKE UP BIT, MM, DIR. TOOLS, SCRIBE IN
08:00	1.50	09:30	6	TRIPS	TIH
09:30	1.50	11:00	8	REPAIR RIG	WORK ON SWIVEL PUMP

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
11:00	1.00	12:00	6	TRIPS	TIH, TAG @ 1940' DRILL STRING PLUGGED, ATTEMPT TO TOO
12:00	1.00	13:00	8	REPAIR RIG	CHANGE OUT BOOM PUMP
13:00	1.50	14:30	6	TRIPS	TOOH, FOUND PLUG DP @ 900'
14:30	1.00	15:30	6	TRIPS	TIH TO CEMENT
15:30	2.00	17:30	2	DRILL ACTUAL	DRILL FLOAT, CEMENT, & SHOE @ 2015'
17:30	0.50	18:00	15	TEST B.O.P	SPOT LCM PILL, RUN EMW TEST @ 182 PSI
18:00	0.50	18:30	6	TRIPS	TOOH FOR MM
18:30	1.50	20:00	8	REPAIR RIG	CHANGE OUT TOP DRIVE MOTORS
20:00	3.00	23:00	6	TRIPS	TOOH
23:00	3.00	02:00	6	TRIPS	MAKE UP BIT NEW MM AND TIH
02:00	4.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/2052' - T/2419' - 367' @91.8'/HR.

4-21D-7-20 Aurora 7/12/2013 06:00 - 7/13/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	2	DRILL ACTUAL	DRILL ACTUAL F/2419' - T/2645' - 225' @ 90.4'/HR.
08:30	0.50	09:00	8	REPAIR RIG	WORK ON PUMP #2
09:00	4.50	13:30	2	DRILL ACTUAL	DRILL ACTUAL F/2645' - T/3008' - 363' @ 80.66'/HR.
13:30	0.50	14:00	7	LUBRICATE RIG	RIG SERVICE
14:00	12.50	02:30	2	DRILL ACTUAL	DRILL ACTUAL F/3008' - T/4004' - 996' @ 80'/HR.
02:30	0.50	03:00	5	COND MUD & CIRC	PUMP 40 BBL HIGH VIS SWEEP, CIRCULATE OUT
03:00	3.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/4004' - T/4184' - 180' @ 60'/HR.

4-21D-7-20 Aurora 7/13/2013 06:00 - 7/14/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Steerable Drill 7 7/8" Hole f/ 4184' To 4320' (136')
08:00	2.00	10:00	8	REPAIR RIG	Change Out Swivel Packing On Top Drive
10:00	0.50	10:30	7	LUBRICATE RIG	Service Rig
10:30	11.00	21:30	2	DRILL ACTUAL	Steerable Drill 7-7/8" Prod Hole F/ 4320' to 5000' (680')
21:30	0.50	22:00	5	COND MUD & CIRC	Sweep & Circ Out
22:00	8.00	06:00	2	DRILL ACTUAL	Steerable Drill f/ 5000' to 5497' (497')

4-21D-7-20 Aurora 7/14/2013 06:00 - 7/15/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	DRILL F/ 5497 T/ 6041 - 544' @ 47' HR - WT ON BIT 20-22 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 250-350PSI - SPP - 2050
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	0.50	18:30	5	COND MUD & CIRC	PUMP 40BBLs HIGH VIS & LCM SWEEP TO CLEAN HOLE - CIRCULATE SHAKERS CLEAN - HOLE APPEARS TO BE CLEANING WELL WITH CURRENT MUD & PUMP RATE
18:30	11.50	06:00	2	DRILL ACTUAL	DRILL F/ 6041 T/ 6775 - 734' @ 63' HR - WT ON BIT 20-22 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 250-350PSI - SPP - 2150 - SLIDE 0'

4-21D-7-20 Aurora 7/15/2013 06:00 - 7/16/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	DRILL F/ 6775 T/ 7185 - 410' @ 35' HR - WT ON BIT 20-22 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 150-250PSI - SPP - 2150 - SLIDE 0'
17:30	0.50	18:00	5	COND MUD & CIRC	RIG SERVICE
18:00	2.50	20:30	2	DRILL ACTUAL	DRILL F/ 7185 T/ 7308 - 123' @ 35' HR - WT ON BIT 20-22 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 150-250PSI - SPP - 2100 - SLIDE 0'

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
20:30	3.50	00:00	6	TRIPS	HIGH TORQUE STALLING T.D. WHILE DRILLING & BACKREAMING - WIPER TRIP F/ 7308 T/ 6873 - PUMP & BACKREAM ALL JTS OUT OF HOLE TO CONDITION HOLE
00:00	6.00	06:00	2	DRILL ACTUAL	DRILL F/ 7308 T/ 7500 - 123' @ 35' HR - WT ON BIT 20-22 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 150-250PSI - SPP - 2100 - SLIDE 0'

4-21D-7-20 Aurora 7/16/2013 06:00 - 7/17/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	DRILL F/ 7500 T/ 7660 - 160' @ 14' HR - WT ON BIT 22-25 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 100-250PSI - SPP - 2200 - SLIDE 0'
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	10.00	04:00	2	DRILL ACTUAL	DRILL F/ 7660 T/ 7897 - 237' @ 24' HR - WT ON BIT 25-27 - RPM 50-70 - TORQUE 8-11 - 530GPM - DIFF 100-250PSI - SPP - 2200 - SLIDE 0'
04:00	2.00	06:00	5	COND MUD & CIRC	PUMP LCM SWEEP - CIRCULATE & BUILD VOLUME

4-21D-7-20 Aurora 7/17/2013 06:00 - 7/18/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	DRILL F/ 7897 T/ 8065
14:00	1.00	15:00	5	COND MUD & CIRC	PUMP SWEEP CLEAN HOLE - CIRCULATE OUT - BUILD SLUG
15:00	8.00	23:00	6	TRIPS	T.O.O.H F/ 8065 T/ 6700 BACKREAMING WITH PUMPS ON - T.O.O.H. F/6700 T/ DIRECTIONAL TOOLS - FILL HOLE CONTINUOUSLY WITH TRIP TANK 65BBLs
23:00	1.00	00:00	20	DIRECTIONAL WORK	L/D DIRECTIONAL TOOLS - DRAIN M/M - BREAK BIT
00:00	6.00	06:00	6	TRIPS	M/U BIT & BIT SUB - T.I.H. FILLING AND CONDITIONING MUD @ SHOE, 4000' 6000'

4-21D-7-20 Aurora 7/18/2013 06:00 - 7/19/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	CONT T.I.H. - WASH & REAM F/ 6505 T/ 8065
09:00	2.00	11:00	5	COND MUD & CIRC	PUMP HIGH VIS LCM SWEEP & CIRCULATE SHAKERS CLEAN - CONDITION MUD FOR LOGS - 35VIS - 17YP
11:00	3.00	14:00	6	TRIPS	BACKREAM T/ 7834 - TIGHT HOLE (PACKING OFF) STALLING T.D. & PRESSURING UP
14:00	1.00	15:00	3	REAMING	WASH & REAM BACK TO BOTTOM
15:00	6.50	21:30	6	TRIPS	BACKREAM T/ 7500' - ABLE TO PULL PIPE FREELY F/7500 T/ 0
21:30	5.00	02:30	11	WIRELINE LOGS	RIG UP LOGGING EQUIPMENT & ATTEMPT TO LOG TAGGED @ 2230' - WORK SPOT W/ NO PROGRESS - RIG DOWN LOGGING EQUIPMENT
02:30	2.00	04:30	21	OPEN	PREPARE TO MAKE WIPER TRIP - RESET RACK'S & LOAD BHA - RIG TOPDRIVE BACK UP FOR WIPER TRIP -
04:30	1.50	06:00	6	TRIPS	T.I.H. T/ CASING SHOE - FILL PIPE - INSTALL ROT. RUBBER

4-21D-7-20 Aurora 7/19/2013 06:00 - 7/20/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	6	TRIPS	T.I.H. T/ 6635
11:30	2.50	14:00	3	REAMING	WASH & REAM F/ 6635 T/ 8065 - WASH JTS DOWN W/O ROTARY & ONLY JTS THAT SLACKED OF 20K OR MORE
14:00	2.50	16:30	5	COND MUD & CIRC	CIRCULATE TELL SHAKERS CLEAN
16:30	8.00	00:30	6	TRIPS	T.O.O.H. F/ 8065 T/ 0 - BACKREAM OUT OF HOLE F/ 8065 T/ 7370 - STARTING WITH BOTH PUMPS & FULL RPM - ELIMINATING STROKES & RPM UNTIL PIPE WAS PULLING FREE
00:30	0.50	01:00	21	OPEN	PULL WEAR BUSHING
01:00	0.50	01:30	7	LUBRICATE RIG	RIG SERVICE

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
01:30	1.50	03:00	21	OPEN	R/D TOPDRIVE TO INSTALL CASING RUNNING EQUIPMENT
03:00	3.00	06:00	12	RUN CASING & CEMENT	M/U FLOAT EQUIPMENT & TEST - RUN 5 1/2 CSG TO SHOE AND FILL

4-21D-7-20 Aurora 7/20/2013 06:00 - 7/21/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	12	RUN CASING & CEMENT	CONT. TO RUN A TOTAL OF 184JTS #17 P-110 LT&C - WASH LAST 5 JTS TO BOTTOM 2ND TO LAST JT 1 1/2 HOURS TO GET DOWN
14:00	1.00	15:00	5	COND MUD & CIRC	R/U HALIBURTON - CONDITION & CIRCULATE MUD PER CEMENTING GUIDELINE'S -
15:00	5.00	20:00	12	RUN CASING & CEMENT	TEST LINES TO 5000PSI - PUMP 10BBLS WATER SPACER - 40BBLS SUPERFLUSH 101 - 10BBLS WATER SPACER - PUMP 103.2BBLS (580SKS) 11.0PPG LEAD CEMENT W/ 2.32 YIELD W/ 10.67GAL SK MIX WATER - PUMP 97.95BBLS (550SKS) 13.56PPG TAIL CEMENT W/ 1.42 YIELD W/ 6.85 GAL SK MIX WATER - DROP PLUG & PUMP 185BBLS CLAWEB & ALDACIDE DISPLACEMENT - LAND PLUG 1150PSI, 0 BBLs OF CEMENT TO SURFACE - 1 BBLs BACK TO TRUCK - FLOATS HELD.
20:00	1.00	21:00	14	NIPPLE DOWN B.O.P	REMOVE BOLTS CONNECTING B.O.P. TO WELLHEAD
21:00	1.00	22:00	12	RUN CASING & CEMENT	SET SLIPS 30K OVER STRING WT & CUT CSG
22:00	8.00	06:00	1	RIGUP & TEARDOWN	RIG DOWN WHILE CLEANING MUD TANKS

4-21D-7-20 Aurora 7/21/2013 06:00 - 7/22/2013 10:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	1	RIGUP & TEARDOWN	CLEAN TANKS - RIG DOWN MOVE LOADS

4-21D-7-20 Aurora 7/23/2013 06:00 - 7/24/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 11" NIGHT CAP. MAKE FINAL CUT AND DRESS 5-1/2". NU 7" 5K TBG HEAD. PRES TEST. VOID AND SEALS. NU 7" NIGHT CAP.

4-21D-7-20 Aurora 7/26/2013 06:00 - 7/27/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured With NightCap. HES Logging Crew Arrive On Location, Hold Safety Meeting, Prep Logging Tool.
06:00	6.00	12:00	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 7,901', Drilling Report Shows FC At 7,973', 64' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 7,901', Run Repeat Section From 7,901' - 7,691', Log Up Hole. Showed Good Bond From TD To 3,500', Spotty From 3,500 To 2,660'. TOC 2,660'. Found Short Joint At 6,956 - 6,978' And 6,074 - 6,096'. RBT Ran To Surface. RMTE To 3,000'. Ran With Pressure. Pooh, RD Equipment, MOL.
12:00	18.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured.

4-21D-7-20 Aurora 8/7/2013 06:00 - 8/8/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FRAC LINE FULL. SETTING FRONTSIDE MANIFOLD AND SPOT MOVERS.

4-21D-7-20 Aurora 8/8/2013 06:00 - 8/9/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	PTST	Pressure Test	HEAT FRAC LINE HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU AND TEST FRAC MANDREL. NU 5" 10K FRAC TREE. (UNABLE TO GET CANARY TEST UNIT TO TEST). RU B&C. TEST FRAC VALVES, CSG, AND FB EQUIP.

4-21D-7-20 Aurora 8/9/2013 06:00 - 8/10/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM
07:00	2.00	09:00	SRIG	Rig Up/Down	MIRU SLB W/ 5K LUBE.
09:00	1.50	10:30	PFRT	Perforating	PU GUNS FOR STG 1. RIH AND CORRELATE TO SJ AT 6956'-6978'. RUN DOWN AND PERF UTELAND BUTTE FORM 7562'-7836' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT WELL IN.
10:30	5.00	15:30	SRIG	Rig Up/Down	MIRU HES FRAC FLEET. PRES TEST LINES.
15:30	14.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

4-21D-7-20 Aurora 8/10/2013 06:00 - 8/11/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00		06:00	SMTG	Safety Meeting	HES AOL AT 04:00. RUN QC ON FLUIDS. PRIME UP CHEMS AND PUMPS. HSM ON RED ZONE, PPE, CONTAINMENTS, SMOKING, AND PERF GUNS.
06:00	0.50	06:30	FRAC	Frac. Job	FRAC STG #1- UTELAND BUTTE PERFS 7562'-7836' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 0 PSI AT 05:07 BREAK DOWN 1864 PSI AT 10.2 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 1149 PSI. FLUSH W/ 7384 GAL. 30.6 BPM AT 1441 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.2 BPM AT 2436 PSI. ISDP 638. FG .52. PERFS OPEN 34/45. CONT FR PAD. 70.6 BPM AT 2328 PSI. STAGE HYBOR PAD 71.0 BPM AT 2542 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.5 BPM AT 2435 PSI. ON PERFS 70.6 BPM AT 2142 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.6 BPM AT 2023 PSI. ON PERFS 70.7 BPM AT 1811 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.7 BPM AT 1713 PSI. ON PERFS 70.7 BPM AT 1658 PSI. STAGE TO 5 PPA 20/40 WHITE. 70.8 BPM AT 1638 PSI. ON PERFS 70.2 BPM AT 1558 PSI. FLUSH 70.0 BPM AT 2114 PSI. WSI WITH 900 PSI. TURN OVER TO WIRELINE. ISIP 926, FG .56, MR 71.4 BPM, MP 2563 PSI, AR 70.6 BPM, AP 1865 PSI. PMP 152,200 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 46,419 GAL 20# HYBOR G (16) 60,857 GAL TOTAL FLUID 111,176 GAL BWTR 2647 BBLS
06:30	1.34	07:50	PFRT	Perforating	PERF STG #2- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 750 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6956'-6978'. RUN DOWN AND SET CBP AT 7545' WITH 600 PSI. PULL UP AND PERF CASTLE PEAK AND UTELAND BUTTE FORM 7285'-7527' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 500 PSI.



Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
07:50	1.16	09:00	FRAC	Frac. Job	<p>FRAC STG #2- CASTLE PEAK AND UTELAND BUTTE PERFS 7285'-7527'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 456 PSI AT 07:58 BREAK DOWN 1407 PSI AT 10.2 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 1141 PSI. FLUSH W/ 7113 GAL. 30.3 BPM AT 2002 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.2 BPM AT 2263 PSI. ISDP 791. FG .54. PERFS OPEN 38/45. CONT FR PAD. 71.5 BPM AT 2329 PSI. STAGE HYBOR PAD 71.6 BPM AT 2596 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.1 BPM AT 2583 PSI. ON PERFS 71.3 BPM AT 2220 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.3 BPM AT 2001 PSI. ON PERFS 71.3 BPM AT 1985 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.3 BPM AT 1878 PSI. ON PERFS 71.3 BPM AT 1707 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.3 BPM AT 1787 PSI. ON PERFS 71.2 BPM AT 1866 PSI. FLUSH 70.6 BPM AT 2380 PSI. WSI WITH 1090 PSI. TURN OVER TO WIRELINE.</p> <p>ISIP 1145, FG .59, MR 71.5 BPM, MP 2630 PSI, AR 71.2 BPM, AP 1996 PSI. PMP 150,100 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 45,607 GAL 20# HYBOR G (16) 60,622 GAL TOTAL FLUID 110,129 GAL BWTR 2622 BBLS</p>
09:00	1.25	10:15	PFRT	Perforating	<p>PERF STG #3- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 750 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6956'-6978'. RUN DOWN AND SET CBP AT 7275' WITH 600 PSI. PULL UP AND PERF BLACK SHALE AND CASTLE PEAK FORM 6976'-7255' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 500 PSI.</p>
10:15	1.17	11:25	FRAC	Frac. Job	<p>FRAC STG #3- BLACK SHALE AND CASTLE PEAK PERFS 6976'-7255'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 625 PSI AT 10:22 BREAK DOWN 2358 PSI AT 10.2 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 1571 PSI. FLUSH W/ 6811 GAL. 30.3 BPM AT 2002 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 72.2 BPM AT 3079 PSI. ISDP 969. FG .57. PERFS OPEN 31/45. CONT FR PAD. 72.0 BPM AT 2679 PSI. STAGE HYBOR PAD 71.7 BPM AT 3005 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.6 BPM AT 2997 PSI. ON PERFS 71.5 BPM AT 2675 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.6 BPM AT 2429 PSI. ON PERFS 71.6 BPM AT 2373 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.6 BPM AT 2236 PSI. ON PERFS 71.6 BPM AT 2191 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.6 BPM AT 2208 PSI. ON PERFS 71.6 BPM AT 2181 PSI. FLUSH 70.8 BPM AT 2670 PSI. WSI WITH 1340 PSI. TURN OVER TO WIRELINE.</p> <p>ISIP 1420, FG .64, MR 71.7 BPM, MP 3013 PSI, AR 71.5 BPM, AP 2380 PSI. PMP 150,300 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 44,434 GAL 20# HYBOR G (16) 62,162 GAL TOTAL FLUID 110,496 GAL BWTR 2631 BBLS</p>
11:25	1.25	12:40	PFRT	Perforating	<p>PERF STG #4- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 1200 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6074'-6096'. RUN DOWN AND SET CBP AT 6965' WITH 1000 PSI. PULL UP AND PERF DOUGLAS CREEK AND 3 PT MKR FORM 6702'-6939' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 550 PSI.</p>



Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
12:40	1.08	13:45	FRAC	Frac. Job	<p>FRAC STG #4- DOUGLAS CREEK AND 3 PT MKR PERFS 6702'-6939'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 844 PSI AT 12:45 BREAK DOWN 844 PSI AT 10.0 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.0 BPM AT 864 PSI. FLUSH W/ 6544 GAL. 30.6 BPM AT 1441 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.6 BPM AT 2890 PSI. ISDP 843. FG .56. PERFS OPEN 31/45. CONT FR PAD. 72.0 BPM AT 2447 PSI. STAGE HYBOR PAD 71.8 BPM AT 2734 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.7 BPM AT 2718 PSI. ON PERFS 71.7 BPM AT 2469 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.7 BPM AT 2370 PSI. ON PERFS 71.8 BPM AT 2186 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.8 BPM AT 2159 PSI. ON PERFS 71.8 BPM AT 2069 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.9 BPM AT 2008 PSI. ON PERFS 71.7 BPM AT 2014 PSI. FLUSH 71.1 BPM AT 2330 PSI. WSI WITH 1130 PSI. TURN OVER TO WIRELINE.</p> <p>ISIP 1163, FG .61, MR 72.6 BPM, MP 2929 PSI, AR 71.7 BPM, AP 2213 PSI. PMP 150,000 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 39,249 GAL 20# HYBOR G (16) 66,871 GAL TOTAL FLUID 110,020 GAL BWTR 2619 BBLS</p>
13:45	1.25	15:00	PFRT	Perforating	<p>PERF STG #5- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 5 INTO LUBE AND EQUALIZE 1000 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6074'-6096'. RUN DOWN AND SET CBP AT 6684' WITH 800 PSI. PULL UP AND PERF DOUGLAS CREEK FORM 6392'-6664' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 800 PSI.</p>
15:00	1.17	16:10	FRAC	Frac. Job	<p>FRAC STG #5- DOUGLAS CREEK PERFS 6392'-6664'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 760 PSI AT 15:08 BREAK DOWN 2435 PSI AT 9.9 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 9.7 BPM AT 1921 PSI. FLUSH W/ 6241 GAL. 29.6 BPM AT 2746 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 69.9 BPM AT 3108 PSI. ISDP 1571. FG .68. PERFS OPEN 36/45. CONT FR PAD. 71.7 BPM AT 3125 PSI. STAGE HYBOR PAD 71.4 BPM AT 3428 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.2 BPM AT 3411 PSI. ON PERFS 71.1 BPM AT 3180 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.2 BPM AT 3128 PSI. ON PERFS 71.5 BPM AT 3104 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.6 BPM AT 3097 PSI. ON PERFS 71.6 BPM AT 2954 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.6 BPM AT 2994 PSI. ON PERFS 71.3 BPM AT 3048 PSI. FLUSH 70.8 BPM AT 3415 PSI. WSI WITH 2050 PSI. TURN OVER TO WIRELINE.</p> <p>ISIP 2095, FG .76, MR 72.1 BPM, MP 3439 PSI, AR 71.4 BPM, AP 3104 PSI. PMP 150,000 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 31,770 GAL 20# HYBOR G (16) 74,370 GAL TOTAL FLUID 110,040 GAL BWTR 2620 BBLS</p>
16:10	1.33	17:30	PFRT	Perforating	<p>PERF STG #6- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 6 INTO LUBE AND EQUALIZE 1700 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6074'-6096'. RUN DOWN AND SET CBP AT 6387' WITH 1500 PSI. PULL UP AND PERF TGR3 AND DOUGLAS CREEK FORM 6112'-6368' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL W/ 1400 PSI.</p>
17:30	11.50	05:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

4-21D-7-20 Aurora 8/11/2013 06:00 - 8/12/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ft)KB 8,065.0	Primary Job Type Drilling & Completion
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Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00		06:00	SMTG	Safety Meeting	HES AOL 04:00. START EQUIP. PRIME UP CHEMS AND PUMP. RUN QC ON FLUIDS. HSM- RED ZONE, WORK AREAS, SMOKING.
06:00		06:00	FRAC	Frac. Job	<p>FRAC STG #6- TGR3 AND DOUGLAS CREEK PERFS 6112'-6368'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 1002 PSI AT 4408 BREAK DOWN 2168 PSI AT 10.0 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 1894 PSI. FLUSH W/ 5968 GAL. 30.0 BPM AT 2377 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.9 BPM AT 3632 PSI. ISDP 1296. FG .65. PERFS OPEN 27/45. CONT FR PAD. 71.2 BPM AT 3215 PSI (31/45 P/O). STAGE HYBOR PAD 71.3 BPM AT 3171 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.1 BPM AT 3040 PSI. ON PERFS 71.3 BPM AT 2927 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.2 BPM AT 2894 PSI. ON PERFS 71.4 BPM AT 2683 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.4 BPM AT 2533 PSI. ON PERFS 71.5 BPM AT 2464 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.4 BPM AT 2457 PSI. ON PERFS 71.3 BPM AT 2411 PSI. FLUSH 70.7 BPM AT 2727 PSI. WSI WITH 1550 PSI. TURN OVER TO WIRELINE.</p> <p>ISIP 1571, FG .69, MR 72.1 BPM, MP 3073 PSI, AR 71.3 BPM, AP 2629 PSI. PMP 150,300 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 35,211 GAL 20# HYBOR G (16) 63,177 GAL TOTAL FLUID 102,288 GAL BWTR 2435 BBLS</p>
06:00	0.84	06:50	PFRT	Perforating	PERF STG #7- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 7 INTO LUBE AND EQUALIZE 1400 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 5122'-5156'. RUN DOWN AND SET CBP AT 6090' WITH 1200 PSI. PULL UP AND PERF PELICAN BENCH, R4, AND L3 FORM 5935'-6073 WITH 33 HOLES IN 11' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 1250 PSI.
06:50	1.08	07:55	FRAC	Frac. Job	<p>FRAC STG #7- PELICAN BENCH, R4, AND L3 PERFS 5935'-6073'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 1165 PSI AT 06:54 BREAK DOWN 1860 PSI AT 10.0 BPM. PMP 3900 GAL 15% HCL ACID W/ 66 BIO BALLS FOR DIVERSION. 10.0 BPM AT 1859 PSI. FLUSH W/ 5795 GAL. 29.0 BPM AT 2523 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.5 BPM AT 3932 PSI. ISDP 1322. FG .67. PERFS OPEN 25/33. CONT FR PAD. 71.0 BPM AT 3479 PSI. STAGE TO .75 PPA 100 MESH. 71.0 BPM AT 3389 PSI. ON PERFS 71.1 BPM AT 3332 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.0 BPM AT 3148 PSI. ON PERFS 71.0 BPM AT 2915 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.1 BPM AT 2755 PSI. ON PERFS 71.2 BPM AT 2574 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.2 BPM AT 2525 PSI. ON PERFS 71.3 BPM AT 2414 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.2 BPM AT 2422 PSI. ON PERFS 71.0 BPM AT 2322 PSI. FLUSH 71.6 BPM AT 2640 PSI. WSI WITH 1450 PSI. BREAK HARDLINE OFF FRAC HEAD. TURN OVER TO WIRELINE.</p> <p>ISIP 1422, FG .67, MR 71.3 BPM, MP 3405 PSI, AR 71.1 BPM, AP 2781 PSI. PMP 5400# 100 MESH 97,420 LBS 20/40 WHITE. TOT PROP 102,820 LBS 250 LBS SCALE SORB 7 SLK WTR 30,928 GAL 20# HYBOR G (16) 39,452 GAL TOTAL FLUID 74,280 GAL BWTR 1769 BBLS</p>
07:55	1.08	09:00	WLWK	Wireline	SETTING KILL PLUG- PU EXELIS 5-1/2" CBP AND SETTING TOOL INTO LUBE AND EQUALIZE 2400 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 5122'-5156'. RUN DOWN AND SET KILL PLUG AT 5880' WITH 1400 PSI
09:00	2.00	11:00	SRIG	Rig Up/Down	RDMO HES AND SLB
11:00	19.00	06:00	GOP	General Operations	WELL SHUT IN AND SECURE. STACK WTR. MOVE TANKS

**4-21D-7-20 Aurora 8/12/2013 06:00 - 8/13/2013 06:00**

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	1.50	08:30	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.
08:30	3.00	11:30	BOPI	Install BOP's	SIWP- 0. N/D FRAC TREE. N/U BOP & HYDRILL. R/U FLOOR & EQUIPMENT. SPOT CATWALK & PIPE RACKS. LOAD 305 JTS ON RACKS & TALLY TBG.
11:30	4.00	15:30	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JT 2-7/8 TBG & 2.31 XN- NIPPLE. RIH P/U 2-7/8 L-80 TBG TO KILL PLUG @ 5880'.
15:30	2.50	18:00	DOPG	Drill Out Plugs	R/U POWER SWIVEL. BREAK CIRC. TEST CIRC EQUIPMENT & BOPE TO 2500 PSI, HELD. D/O KILL PLUG @ 5880'. FCP- 1000 ON 20/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6077'. C/O SAND & D/O CBP @ 6090'. FCP- 950 ON 18/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6261'. C/O SAND & D/O CBP @ 6387'. FCP- 850 ON 16/64 CHOKE. CIRC WELL CLEAN. R/D SWIVEL. SDFN. TURN WELL OVER TO FLOW BACK. SDFN.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

4-21D-7-20 Aurora 8/13/2013 06:00 - 8/14/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	6.00	13:00	DOPG	Drill Out Plugs	FCP- 450 ON 24/64 CHOKE. R/U SWIVEL & SWIVEL IN HOLE, TAG SAND @ 6615'. C/O SAND & D/O CBP @ 6684'. FCP- 400 ON 32/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 6901'. C/O SAND & D/O CBP @ 6965'. FCP- 200 ON 64/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 7099'. C/O SAND & D/O CBP @ 7275'. FCP- 150 ON 64/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 7363'. C/O SAND & D/O CBP @ 7545'. FCP- 150 ON 64/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 7712'. C/O SAND TO F/C @ 7972'. D/O F/C & C/O CMT TO 8008'. 172' OF RAT HOLE. 252 JTS IN. CIRC WELL CLEAN. R/D SWIVEL.
13:00	1.00	14:00	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 5845' & LAND TBG. 183 JTS TOTAL IN HOLE.
14:00	2.00	16:00	IWHD	Install Wellhead	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF. R/U TBG TO SALES LINE. R/U DELSCO W/L. RIH W/ 1-1/2" SINKER BARS TAG HIGH @ 7925', 89' OF RAT HOLE. POOH. R/D DELSCO. TURN WELL OVER TO FLOW BACK.
16:00	2.50	18:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. ROAD RIG TO PTS 33-36 STATE. SDFN.
18:30	11.50	06:00	CTRL	Crew Travel	CREW TRAVEL.

4-21D-7-20 Aurora 8/20/2013 06:00 - 8/21/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING,
07:00	1.00	08:00	RURP	Run Rods & Pump	MIRU KEY 6083.
08:00	2.00	10:00	DTIM	Downtime	WAIT ON WATER.
10:00	2.00	12:00	WKLL	Kill Well	KILL WELL W/ 140 BBLS WATER.
12:00	1.00	13:00	BOPI	Install BOP's	N/D WELLHEAD. N/U BOP. R/U FLOOR & EQUIPMENT.
13:00	1.00	14:00	RUTB	Run Tubing	RIH P/U 2-7/8 TBG, TAG FILL @ 7920'. 86' OF RAT HOLE.
14:00	1.00	15:00	GOP	General Operations	RIG SINKING. RE LEVEL RIG.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
15:00	1.50	16:30	PULT	Pull Tubing	POOH W/ 203 JTS TBG & BOTTOM HALF POBS.
16:30	2.00	18:30	RUTB	Run Tubing	P/U TAC & BHA. RIH TO TOP OF PERFS. EOT @ 5813'. SDFN.
18:30	11.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

4-21D-7-20 Aurora 8/21/2013 06:00 - 8/22/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	1.50	08:30	WKLL	Kill Well	KILL WELL/W 140 BBL DOWN TBG
08:30	1.00	09:30	RUTB	Run Tubing	FINISH RIH/TBG
09:30	1.00	10:30	BOPR	Remove BOP's	ND BOPS SET 1/4 SET TAC@6254' NU WH BUILD FLOW LINE TBG DETAIL KB 24 HANGER .81 2 7/8 TBG 196 JTS 6226.92 NABORS 5-1/2" 1/4 SET 3.35 AT 6254.08 2 7/8 TBG 2 JTS 63.45 S/N 1.10 AT 6318.72 4' SUB 4.10 DESANDER 17.22 2 7/8 TBG 5 JTS 158.85 BULL PLUG .45 AT 6499.32
10:30	0.50	11:00	GOP	General Operations	FINISH DRESSING RODS
11:00	4.00	15:00	RURP	Run Rods & Pump	RIH W/ PMP AND RODS ROD DETAIL 1-1/2" X 30' POLISH ROD 6' X 7/8" PONY ROD 90) 7/8" MMS W/ 4G 132) 3/4" MMS W/ 4G 28) 1" MMS W/ 4G SHEAR CPLG 25-175-RHBC-20-4-21-24 #BB2521
15:00	1.00	16:00	PTST	Pressure Test	SPACE OUT FILL TEST TO 1000 PSI STROKE TEST 1000PSI
16:00	0.50	16:30	GOP	General Operations	HANG HEAD AND RODS ON
16:30	0.50	17:00	SRIG	Rig Up/Down	RDMO. TURN OVER TO PRRODUCTION
17:00	13.00	06:00	GOP	General Operations	CREW TRAVEL. WELL ON PRODUCTION.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75093
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: Aurora Federal 4-21D-7-20
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0267 FNL 0223 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 21 Township: 07.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047526330000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/20/2013				
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Cutting/reclamation completed on this pad on 9/20/13

Accepted by the
Utah Division of
Oil, Gas and Mining

FOR RECORD ONLY

September 27, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 9/23/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-75093
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: Aurora Federal 4-21D-7-20
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0267 FNL 0223 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 21 Township: 07.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047526330000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/31/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Attached is the August 2013 Drilling Activity for this well.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 October 02, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 9/4/2013	

**4-21D-7-20 Aurora 8/7/2013 06:00 - 8/8/2013 06:00**

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FRAC LINE FULL. SETTING FRONTSIDE MANIFOLD AND SPOT MOVERS.

4-21D-7-20 Aurora 8/8/2013 06:00 - 8/9/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	PTST	Pressure Test	HEAT FRAC LINE HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU AND TEST FRAC MANDREL. NU 5" 10K FRAC TREE. (UNABLE TO GET CANARY TEST UNIT TO TEST). RU B&C. TEST FRAC VALVES, CSG, AND FB EQUIP.

4-21D-7-20 Aurora 8/9/2013 06:00 - 8/10/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM
07:00	2.00	09:00	SRIG	Rig Up/Down	MIRU SLB W/ 5K LUBE.
09:00	1.50	10:30	PFRT	Perforating	PU GUNS FOR STG 1. RIH AND CORRELATE TO SJ AT 6956'-6978'. RUN DOWN AND PERF UTELAND BUTTE FORM 7562'-7836' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT WELL IN.
10:30	5.00	15:30	SRIG	Rig Up/Down	MIRU HES FRAC FLEET. PRES TEST LINES.
15:30	14.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

4-21D-7-20 Aurora 8/10/2013 06:00 - 8/11/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00		06:00	SMTG	Safety Meeting	HES AOL AT 04:00. RUN QC ON FLUIDS. PRIME UP CHEMS AND PUMPS. HSM ON RED ZONE, PPE, CONTAINMENTS, SMOKING, AND PERF GUNS.
06:00	0.50	06:30	FRAC	Frac. Job	FRAC STG #1- UTELAND BUTTE PERFS 7562'-7836' 45 HOLES IN 15' NET. PRESSURE TEST LINES TO 9200 PSI. OPEN WELL W/ 0 PSI AT 05:07 BREAK DOWN 1864 PSI AT 10.2 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 1149 PSI. FLUSH W/ 7384 GAL. 30.6 BPM AT 1441 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.2 BPM AT 2436 PSI. ISDP 638. FG .52. PERFS OPEN 34/45. CONT FR PAD. 70.6 BPM AT 2328 PSI. STAGE HYBOR PAD 71.0 BPM AT 2542 PSI. STAGE TO 2 PPA 20/40 WHITE. 70.5 BPM AT 2435 PSI. ON PERFS 70.6 BPM AT 2142 PSI. STAGE TO 3 PPA 20/40 WHITE. 70.6 BPM AT 2023 PSI. ON PERFS 70.7 BPM AT 1811 PSI. STAGE TO 4 PPA 20/40 WHITE. 70.7 BPM AT 1713 PSI. ON PERFS 70.7 BPM AT 1658 PSI. STAGE TO 5 PPA 20/40 WHITE. 70.8 BPM AT 1638 PSI. ON PERFS 70.2 BPM AT 1558 PSI. FLUSH 70.0 BPM AT 2114 PSI. WSI WITH 900 PSI. TURN OVER TO WIRELINE. ISIP 926, FG .56, MR 71.4 BPM, MP 2563 PSI, AR 70.6 BPM, AP 1865 PSI. PMP 152,200 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 46,419 GAL 20# HYBOR G (16) 60,857 GAL TOTAL FLUID 111,176 GAL BWTR 2647 BBLS
06:30	1.34	07:50	PFRT	Perforating	PERF STG #2- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 750 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6956'-6978'. RUN DOWN AND SET CBP AT 7545' WITH 600 PSI. PULL UP AND PERF CASTLE PEAK AND UTELAND BUTTE FORM 7285'-7527' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 500 PSI.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:50	1.16	09:00	FRAC	Frac. Job	<p>FRAC STG #2- CASTLE PEAK AND UTELAND BUTTE PERFS 7285'-7527'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 456 PSI AT 07:58 BREAK DOWN 1407 PSI AT 10.2 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 1141 PSI. FLUSH W/ 7113 GAL. 30.3 BPM AT 2002 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.2 BPM AT 2263 PSI. ISDP 791. FG .54. PERFS OPEN 38/45. CONT FR PAD. 71.5 BPM AT 2329 PSI. STAGE HYBOR PAD 71.6 BPM AT 2596 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.1 BPM AT 2583 PSI. ON PERFS 71.3 BPM AT 2220 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.3 BPM AT 2001 PSI. ON PERFS 71.3 BPM AT 1985 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.3 BPM AT 1878 PSI. ON PERFS 71.3 BPM AT 1707 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.3 BPM AT 1787 PSI. ON PERFS 71.2 BPM AT 1866 PSI. FLUSH 70.6 BPM AT 2380 PSI. WSI WITH 1090 PSI. TURN OVER TO WIRELINE.</p> <p>ISIP 1145, FG .59, MR 71.5 BPM, MP 2630 PSI, AR 71.2 BPM, AP 1996 PSI. PMP 150,100 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 45,607 GAL 20# HYBOR G (16) 60,622 GAL TOTAL FLUID 110,129 GAL BWTR 2622 BBLS</p>
09:00	1.25	10:15	PFRT	Perforating	<p>PERF STG #3- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 750 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6956'-6978'. RUN DOWN AND SET CBP AT 7275' WITH 600 PSI. PULL UP AND PERF BLACK SHALE AND CASTLE PEAK FORM 6976'-7255' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 500 PSI.</p>
10:15	1.17	11:25	FRAC	Frac. Job	<p>FRAC STG #3- BLACK SHALE AND CASTLE PEAK PERFS 6976'-7255'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 625 PSI AT 10:22 BREAK DOWN 2358 PSI AT 10.2 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 1571 PSI. FLUSH W/ 6811 GAL. 30.3 BPM AT 2002 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 72.2 BPM AT 3079 PSI. ISDP 969. FG .57. PERFS OPEN 31/45. CONT FR PAD. 72.0 BPM AT 2679 PSI. STAGE HYBOR PAD 71.7 BPM AT 3005 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.6 BPM AT 2997 PSI. ON PERFS 71.5 BPM AT 2675 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.6 BPM AT 2429 PSI. ON PERFS 71.6 BPM AT 2373 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.6 BPM AT 2236 PSI. ON PERFS 71.6 BPM AT 2191 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.6 BPM AT 2208 PSI. ON PERFS 71.6 BPM AT 2181 PSI. FLUSH 70.8 BPM AT 2670 PSI. WSI WITH 1340 PSI. TURN OVER TO WIRELINE.</p> <p>ISIP 1420, FG .64, MR 71.7 BPM, MP 3013 PSI, AR 71.5 BPM, AP 2380 PSI. PMP 150,300 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 44,434 GAL 20# HYBOR G (16) 62,162 GAL TOTAL FLUID 110,496 GAL BWTR 2631 BBLS</p>
11:25	1.25	12:40	PFRT	Perforating	<p>PERF STG #4- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 1200 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6074'-6096'. RUN DOWN AND SET CBP AT 6965' WITH 1000 PSI. PULL UP AND PERF DOUGLAS CREEK AND 3 PT MKR FORM 6702'-6939' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 550 PSI.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
12:40	1.08	13:45	FRAC	Frac. Job	<p>FRAC STG #4- DOUGLAS CREEK AND 3 PT MKR PERFS 6702'-6939'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 844 PSI AT 12:45 BREAK DOWN 844 PSI AT 10.0 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.0 BPM AT 864 PSI. FLUSH W/ 6544 GAL. 30.6 BPM AT 1441 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.6 BPM AT 2890 PSI. ISDP 843. FG .56. PERFS OPEN 31/45. CONT FR PAD. 72.0 BPM AT 2447 PSI. STAGE HYBOR PAD 71.8 BPM AT 2734 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.7 BPM AT 2718 PSI. ON PERFS 71.7 BPM AT 2469 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.7 BPM AT 2370 PSI. ON PERFS 71.8 BPM AT 2186 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.8 BPM AT 2159 PSI. ON PERFS 71.8 BPM AT 2069 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.9 BPM AT 2008 PSI. ON PERFS 71.7 BPM AT 2014 PSI. FLUSH 71.1 BPM AT 2330 PSI. WSI WITH 1130 PSI. TURN OVER TO WIRELINE.</p> <p>ISIP 1163, FG .61, MR 72.6 BPM, MP 2929 PSI, AR 71.7 BPM, AP 2213 PSI. PMP 150,000 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 39,249 GAL 20# HYBOR G (16) 66,871 GAL TOTAL FLUID 110,020 GAL BWTR 2619 BBLS</p>
13:45	1.25	15:00	PFRT	Perforating	<p>PERF STG #5- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 5 INTO LUBE AND EQUALIZE 1000 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6074'-6096'. RUN DOWN AND SET CBP AT 6684' WITH 800 PSI. PULL UP AND PERF DOUGLAS CREEK FORM 6392'-6664' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 800 PSI.</p>
15:00	1.17	16:10	FRAC	Frac. Job	<p>FRAC STG #5- DOUGLAS CREEK PERFS 6392'-6664'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 760 PSI AT 15:08 BREAK DOWN 2435 PSI AT 9.9 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 9.7 BPM AT 1921 PSI. FLUSH W/ 6241 GAL. 29.6 BPM AT 2746 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 69.9 BPM AT 3108 PSI. ISDP 1571. FG .68. PERFS OPEN 36/45. CONT FR PAD. 71.7 BPM AT 3125 PSI. STAGE HYBOR PAD 71.4 BPM AT 3428 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.2 BPM AT 3411 PSI. ON PERFS 71.1 BPM AT 3180 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.2 BPM AT 3128 PSI. ON PERFS 71.5 BPM AT 3104 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.6 BPM AT 3097 PSI. ON PERFS 71.6 BPM AT 2954 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.6 BPM AT 2994 PSI. ON PERFS 71.3 BPM AT 3048 PSI. FLUSH 70.8 BPM AT 3415 PSI. WSI WITH 2050 PSI. TURN OVER TO WIRELINE.</p> <p>ISIP 2095, FG .76, MR 72.1 BPM, MP 3439 PSI, AR 71.4 BPM, AP 3104 PSI. PMP 150,000 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 31,770 GAL 20# HYBOR G (16) 74,370 GAL TOTAL FLUID 110,040 GAL BWTR 2620 BBLS</p>
16:10	1.33	17:30	PFRT	Perforating	<p>PERF STG #6- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 6 INTO LUBE AND EQUALIZE 1700 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 6074'-6096'. RUN DOWN AND SET CBP AT 6387' WITH 1500 PSI. PULL UP AND PERF TGR3 AND DOUGLAS CREEK FORM 6112'-6368' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL W/ 1400 PSI.</p>
17:30	11.50	05:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

4-21D-7-20 Aurora 8/11/2013 06:00 - 8/12/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ft)KB 8,065.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00		06:00	SMTG	Safety Meeting	HES AOL 04:00. START EQUIP. PRIME UP CHEMS AND PUMP. RUN QC ON FLUIDS. HSM- RED ZONE, WORK AREAS, SMOKING.
06:00		06:00	FRAC	Frac. Job	<p>FRAC STG #6- TGR3 AND DOUGLAS CREEK PERFS 6112'-6368'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 1002 PSI AT 4408 BREAK DOWN 2168 PSI AT 10.0 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 1894 PSI. FLUSH W/ 5968 GAL. 30.0 BPM AT 2377 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.9 BPM AT 3632 PSI. ISDP 1296. FG .65. PERFS OPEN 27/45. CONT FR PAD. 71.2 BPM AT 3215 PSI (31/45 P/O). STAGE HYBOR PAD 71.3 BPM AT 3171 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.1 BPM AT 3040 PSI. ON PERFS 71.3 BPM AT 2927 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.2 BPM AT 2894 PSI. ON PERFS 71.4 BPM AT 2683 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.4 BPM AT 2533 PSI. ON PERFS 71.5 BPM AT 2464 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.4 BPM AT 2457 PSI. ON PERFS 71.3 BPM AT 2411 PSI. FLUSH 70.7 BPM AT 2727 PSI. WSI WITH 1550 PSI. TURN OVER TO WIRELINE.</p> <p>ISIP 1571, FG .69, MR 72.1 BPM, MP 3073 PSI, AR 71.3 BPM, AP 2629 PSI. PMP 150,300 LBS 20/40 WHITE. 250 LBS SCALE SORB 7 SLK WTR 35,211 GAL 20# HYBOR G (16) 63,177 GAL TOTAL FLUID 102,288 GAL BWTR 2435 BBLS</p>
06:00	0.84	06:50	PFRT	Perforating	PERF STG #7- PU EXELIS 5-1/2" CBP AND GUNS FOR STAGE 7 INTO LUBE AND EQUALIZE 1400 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 5122'-5156'. RUN DOWN AND SET CBP AT 6090' WITH 1200 PSI. PULL UP AND PERF PELICAN BENCH, R4, AND L3 FORM 5935'-6073 WITH 33 HOLES IN 11' NET. POOH AND VERIFY ALL GUNS SHOT. TURN WELL OVER TO HES WITH 1250 PSI.
06:50	1.08	07:55	FRAC	Frac. Job	<p>FRAC STG #7- PELICAN BENCH, R4, AND L3 PERFS 5935'-6073'. PRESSURE TEST LINES TO 9000 PSI. OPEN WELL W/ 1165 PSI AT 06:54 BREAK DOWN 1860 PSI AT 10.0 BPM. PMP 3900 GAL 15% HCL ACID W/ 66 BIO BALLS FOR DIVERSION. 10.0 BPM AT 1859 PSI. FLUSH W/ 5795 GAL. 29.0 BPM AT 2523 PSI. ATTEMPT BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.5 BPM AT 3932 PSI. ISDP 1322. FG .67. PERFS OPEN 25/33. CONT FR PAD. 71.0 BPM AT 3479 PSI. STAGE TO .75 PPA 100 MESH. 71.0 BPM AT 3389 PSI. ON PERFS 71.1 BPM AT 3332 PSI. STAGE TO 2 PPA 20/40 WHITE. 71.0 BPM AT 3148 PSI. ON PERFS 71.0 BPM AT 2915 PSI. STAGE TO 3 PPA 20/40 WHITE. 71.1 BPM AT 2755 PSI. ON PERFS 71.2 BPM AT 2574 PSI. STAGE TO 4 PPA 20/40 WHITE. 71.2 BPM AT 2525 PSI. ON PERFS 71.3 BPM AT 2414 PSI. STAGE TO 5 PPA 20/40 WHITE. 71.2 BPM AT 2422 PSI. ON PERFS 71.0 BPM AT 2322 PSI. FLUSH 71.6 BPM AT 2640 PSI. WSI WITH 1450 PSI. BREAK HARDLINE OFF FRAC HEAD. TURN OVER TO WIRELINE.</p> <p>ISIP 1422, FG .67, MR 71.3 BPM, MP 3405 PSI, AR 71.1 BPM, AP 2781 PSI. PMP 5400# 100 MESH 97,420 LBS 20/40 WHITE. TOT PROP 102,820 LBS 250 LBS SCALE SORB 7 SLK WTR 30,928 GAL 20# HYBOR G (16) 39,452 GAL TOTAL FLUID 74,280 GAL BWTR 1769 BBLS</p>
07:55	1.08	09:00	WLWK	Wireline	SETTING KILL PLUG- PU EXELIS 5-1/2" CBP AND SETTING TOOL INTO LUBE AND EQUALIZE 2400 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 5122'-5156'. RUN DOWN AND SET KILL PLUG AT 5880' WITH 1400 PSI
09:00	2.00	11:00	SRIG	Rig Up/Down	RDMO HES AND SLB
11:00	19.00	06:00	GOP	General Operations	WELL SHUT IN AND SECURE. STACK WTR. MOVE TANKS

**4-21D-7-20 Aurora 8/12/2013 06:00 - 8/13/2013 06:00**

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	1.50	08:30	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.
08:30	3.00	11:30	BOPI	Install BOP's	SIWP- 0. N/D FRAC TREE. N/U BOP & HYDRILL. R/U FLOOR & EQUIPMENT. SPOT CATWALK & PIPE RACKS. LOAD 305 JTS ON RACKS & TALLY TBG.
11:30	4.00	15:30	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JT 2-7/8 TBG & 2.31 XN- NIPPLE. RIH P/U 2-7/8 L-80 TBG TO KILL PLUG @ 5880'.
15:30	2.50	18:00	DOPG	Drill Out Plugs	R/U POWER SWIVEL. BREAK CIRC. TEST CIRC EQUIPMENT & BOPE TO 2500 PSI, HELD. D/O KILL PLUG @ 5880'. FCP- 1000 ON 20/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6077'. C/O SAND & D/O CBP @ 6090'. FCP- 950 ON 18/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6261'. C/O SAND & D/O CBP @ 6387'. FCP- 850 ON 16/64 CHOKE. CIRC WELL CLEAN. R/D SWIVEL. SDFN. TURN WELL OVER TO FLOW BACK. SDFN.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

4-21D-7-20 Aurora 8/13/2013 06:00 - 8/14/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	6.00	13:00	DOPG	Drill Out Plugs	FCP- 450 ON 24/64 CHOKE. R/U SWIVEL & SWIVEL IN HOLE, TAG SAND @ 6615'. C/O SAND & D/O CBP @ 6684'. FCP- 400 ON 32/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 6901'. C/O SAND & D/O CBP @ 6965'. FCP- 200 ON 64/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 7099'. C/O SAND & D/O CBP @ 7275'. FCP- 150 ON 64/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 7363'. C/O SAND & D/O CBP @ 7545'. FCP- 150 ON 64/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 7712'. C/O SAND TO F/C @ 7972'. D/O F/C & C/O CMT TO 8008'. 172' OF RAT HOLE. 252 JTS IN. CIRC WELL CLEAN. R/D SWIVEL.
13:00	1.00	14:00	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 5845' & LAND TBG. 183 JTS TOTAL IN HOLE.
14:00	2.00	16:00	IWHD	Install Wellhead	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF. R/U TBG TO SALES LINE. R/U DELSCO W/L. RIH W/ 1-1/2" SINKER BARS TAG HIGH @ 7925', 89' OF RAT HOLE. POOH. R/D DELSCO. TURN WELL OVER TO FLOW BACK.
16:00	2.50	18:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. ROAD RIG TO PTS 33-36 STATE. SDFN.
18:30	11.50	06:00	CTRL	Crew Travel	CREW TRAVEL.

4-21D-7-20 Aurora 8/20/2013 06:00 - 8/21/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING,
07:00	1.00	08:00	RURP	Run Rods & Pump	MIRU KEY 6083.
08:00	2.00	10:00	DTIM	Downtime	WAIT ON WATER.
10:00	2.00	12:00	WKLL	Kill Well	KILL WELL W/ 140 BBLS WATER.
12:00	1.00	13:00	BOPI	Install BOP's	N/D WELLHEAD. N/U BOP. R/U FLOOR & EQUIPMENT.
13:00	1.00	14:00	RUTB	Run Tubing	RIH P/U 2-7/8 TBG, TAG FILL @ 7920'. 86' OF RAT HOLE.
14:00	1.00	15:00	GOP	General Operations	RIG SINKING. RE LEVEL RIG.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
15:00	1.50	16:30	PULT	Pull Tubing	POOH W/ 203 JTS TBG & BOTTOM HALF POBS.
16:30	2.00	18:30	RUTB	Run Tubing	P/U TAC & BHA. RIH TO TOP OF PERFS. EOT @ 5813'. SDFN.
18:30	11.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

4-21D-7-20 Aurora 8/21/2013 06:00 - 8/22/2013 06:00

API/UWI 43047526330000	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,065.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	1.50	08:30	WKLL	Kill Well	KILL WELL/W 140 BBL DOWN TBG
08:30	1.00	09:30	RUTB	Run Tubing	FINISH RIH/TBG
09:30	1.00	10:30	BOPR	Remove BOP's	ND BOPS SET 1/4 SET TAC@6254' NU WH BUILD FLOW LINE TBG DETAIL KB 24 HANGER .81 2 7/8 TBG 196 JTS 6226.92 NABORS 5-1/2" 1/4 SET 3.35 AT 6254.08 2 7/8 TBG 2 JTS 63.45 S/N 1.10 AT 6318.72 4' SUB 4.10 DESANDER 17.22 2 7/8 TBG 5 JTS 158.85 BULL PLUG .45 AT 6499.32
10:30	0.50	11:00	GOP	General Operations	FINISH DRESSING RODS
11:00	4.00	15:00	RURP	Run Rods & Pump	RIH W/ PMP AND RODS ROD DETAIL 1-1/2" X 30' POLISH ROD 6' X 7/8" PONY ROD 90) 7/8" MMS W/ 4G 132) 3/4" MMS W/ 4G 28) 1" MMS W/ 4G SHEAR CPLG 25-175-RHBC-20-4-21-24 #BB2521
15:00	1.00	16:00	PTST	Pressure Test	SPACE OUT FILL TEST TO 1000 PSI STROKE TEST 1000PSI
16:00	0.50	16:30	GOP	General Operations	HANG HEAD AND RODS ON
16:30	0.50	17:00	SRIG	Rig Up/Down	RDMO. TURN OVER TO PRRODUCTION
17:00	13.00	06:00	GOP	General Operations	CREW TRAVEL. WELL ON PRODUCTION.

RM
BGH
PIC

43 04752633



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
440 West 200 South, Suite 500
Salt Lake City, UT 84101
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO:
3180 (UTU82456X)
UT-922000

MAR 18 2014

Mr. Kevin Funk
Bill Barrett Corporation
1099 18th Street, Suite 2300
Denver, Colorado 80202

RECEIVED
MAR 20 2014
DIV. OF OIL, GAS & MINING

Re: Initial Consolidated
Green River – Wasatch Formation
Participating Area (PA) “A,G”
Aurora (Deep) Unit
Uintah County, Utah

Dear Mr. Funk:

The Initial Consolidated Green River – Wasatch Formation Participating Area “A,G”, Aurora (Deep) Unit, UTU82456K, located in Uintah County, Utah, is hereby approved effective as of August 1, 2013, pursuant to Section 11 of the Aurora (Deep) Unit Agreement.

This participating area is a result of the consolidation of the Green River Participating Area “A”, UTU82456A, the Green River – Wasatch Participating Area “A”, UTU82456C, and the Green River – Wasatch Participating Area “G”, UTU82456I, and the addition of 160.00 for a total of 640.00 acres and is based upon the completion of Well No. 4-21D-7-20, API No. 43-047-52633, located in the NW¼NW¼ of Section 21, Township 7 South, Range 20 East, Federal Unit Tract No. 8, Lease No. UTU75093, as a well capable of producing unitized substances in paying quantities.

For production and accounting reporting purposes, all submissions pertaining to the Initial Consolidated Green River – Wasatch Formation PA “A,G” shall refer to UTU82456K.

A copy of the approved request is being distributed to the appropriate agencies and one copy is returned herewith. Please advise all interested parties of the approval of the Initial Consolidated Green River -Wasatch Formation PA “A,G”, Aurora (Deep) Unit, and its effective date.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

RECEIVED

APR 03 2014

ENTITY ACTION FORM

Div. of Oil, Gas & Mining

Operator: Bill Barrett Corporation

Operator Account Number: N 2165

Address: 1099 18th Street, Suite 2300

city Denver

state CO

zip 80202

Phone Number: (303) 312-8115

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304738347	ROGERS 16-43		SWSE	16	7S	20E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
C	16977	14989			8/1/2013		
Comments: <u>GR-WS</u> <u>4-7-2014</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752129	Aurora 3-16D-7-20		NENW	16	7S	20E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
C	18483	14989			8/1/2013		
Comments: <u>GR-WS</u> <u>4-7-2014</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752633	Aurora Federal 4-21D-7-20		NWNW	21	7S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
C	19094	14989			8/1/2013		
Comments: <u>GRRV GR-WS</u> <u>4-7-2014</u>							

ACTION CODES:

- A** - Establish new entity for new well (single well only)
- B** - Add new well to existing entity (group or unit well)
- C** - Re-assign well from one existing entity to another existing entity
- D** - Re-assign well from one existing entity to a new entity
- E** - Other (Explain in 'comments' section)

Brady Riley

Name (Please Print)

Brady Riley

Signature

Permit Analyst

Title

4/3/2014

Date